KUMHO TIRE
PRODUCT DATA GUIDE

PERFORMANCE I TRUCK, SUV, & CROSSOVER

PASSENGER I ORIGINAL EQUIPMENT

PERFORMANCE 4

ECSTA V730 6

V730
Extreme Performance Summer
UTQG 200 AA/A | V & W RATED

ECSTA V720 8

V720
Extreme Performance Summer
UTQG 200 AA/A | W RATED

ECSTA V720 ACR 10

V720 ACR
Streetable Track & Competition
UTQG 200 A/A | Y RATED

ECSTA PS91 12

PS91
Max Performance Summer UTQG
260 AA/A | (Y) RATED

ECSTA PS31 15

PS31
Ultra-High Performance Summer
UTQG 460 A/A | V & W RATED

ECSTA PA51 18

PA51
Ultra-High Performance All-Season
UTQG 500 AA/A | V & W RATED

ECSTA PA31 21

PA31
High-Performance All-Season
UTQG 500 A/A | V RATED

PASSENGER 23

SOLUS TA71 25

TA71
Grand Touring All-Season
UTQG 500 AA/A, 600 A/A
V & W RATED

SOLUS TA31 28

TA31
Grand Touring All-Season
UTQG 480 A/A, 500 A/A
T, H, & V RATED

SOLUS TA11 31

TA11
Touring All-Season
UTQG 700 A/B
T RATED

SOLUS TA51a 34

TA51A
Touring All-Season
UTQG 640 A/A
T, H, & V RATED

TRUCK, SUV & CROSSOVER 35

Crugen Premium KL33, Crugen HP71, Crugen HT51, Eco Solus KL21, Majesty Solus KU50, Majesty Solus TA91, Solus TA31, Solus TA31+

PERFORMANCE

The performance Ecsta series is built on a solid foundation of Kumho Tire's race-proven technology. Advanced silica compounding and computer-aided tread patterns maximize Ecsta's traction and handling for winning performance. Expect the ultimate in responsive handling and tight cornering.

PREMIUM

Ecsta PS91
Pg. 12

Solus TA71
Pg. 25

Ecsta V720 ACR
Pg. 10

Solus TA51a
Pg. 34

Ecsta V730
Pg. 6

Ecsta PA51
Pg. 18

Ecsta V720
Pg. 8

Solus TA31
Pg. 28

Ecsta PA31
Pg. 21

Ecsta PS31
Pg. 15

COMFORT

Solus TA11
Pg. 31

SPORT HANDLING

ECONOMY
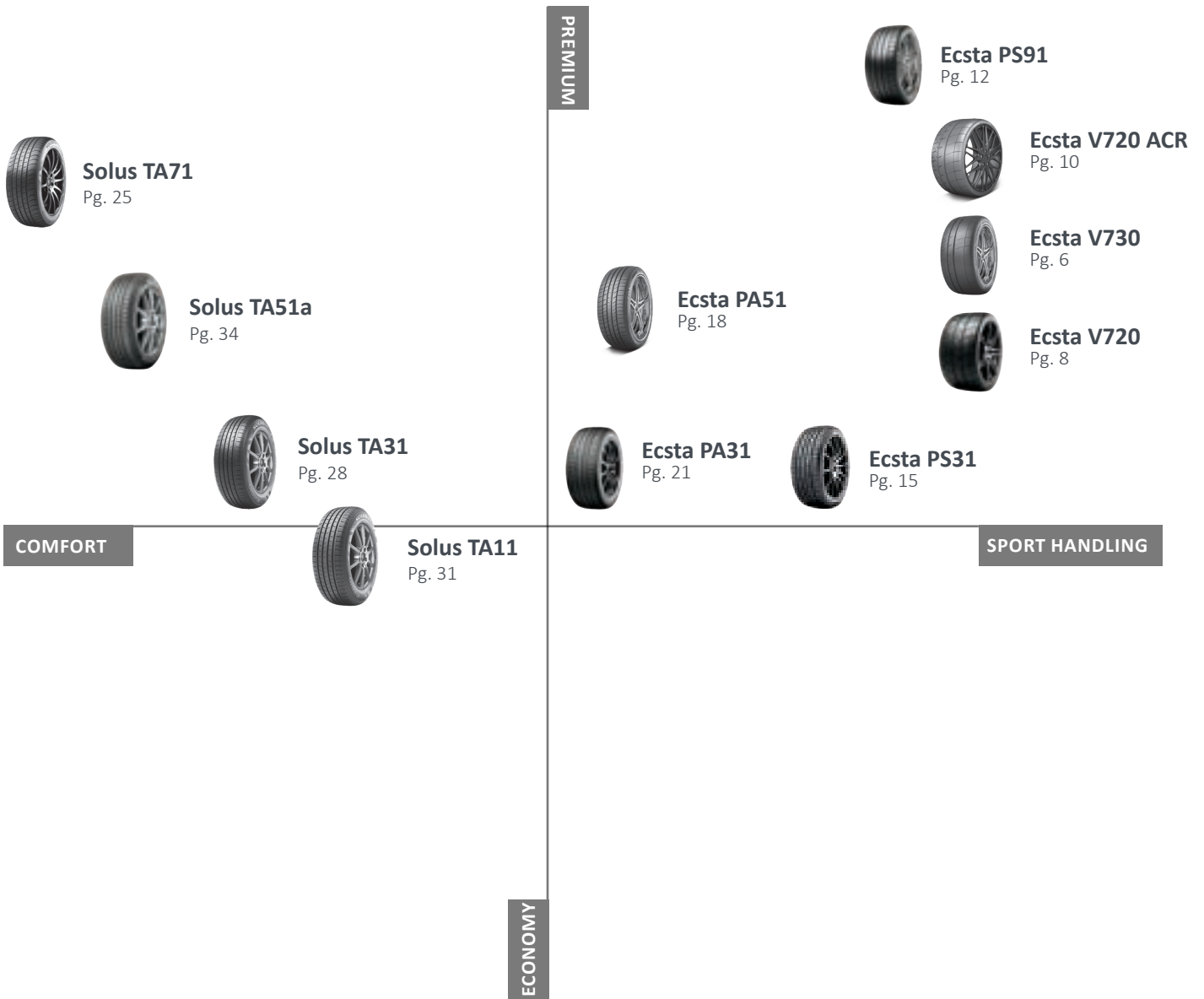
ECSTa V730

BRED FOR PERFORMANCE AND DOMESTICATED FOR SOCIETY

Class: Extreme Performance Summer

The Ecsta V730 was designed with both dry and wet traction in mind; this performance centered product will give any passionate driving enthusiast a tire that will meet all expectations, both on and off the track. With improved and innovative technology, you will handle the road like never before.

BENEFITS & TECHNOLOGY

- Ultra-high grip synthetic resin and fine carbon black enhanced tread compound provides ultimate grip and handling performance

- Wide outer block tread design provides enhanced controlled cornering ability and dry road responsiveness

- Optimized footprint pressure distribution for balanced and even wear to provide durability performance

- Application of wide-circumferential grooves to reduce hydroplaning and enhance wet handling

Tread Classification: Asymmetric | UTQG 200 AA/A | V & W RATED

PERFORMANCE RATINGS

Category	Rating
DRY	10
WET	6
NOISE	6
WEAR	6
COMFORT	5
SNOW	N/A
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLE

Honda S2000; Mazda MX-5 Miata; Mini Cooper S; Subaru BRZ; Mazda RX-7; Volkswagen Golf GTI; Subaru WRX

COMPARABLE COMPETITOR PRODUCTS

Hankook Ventus R-S4; Nexen N FERA SUR4G; Bridgestone Potenza RE-71R; Falken Azensis RT615K+; BFG g-Force Rival S

Available tire sizes on next page.

ECSTA V730

TREAD CODE V730

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Inflation Air(psi)
2271253	205/50R15	86V	-	BSW	200 AA/A	5.5- 7.5	8.4 on 6.5	23.1	20.6	10.6	873	8.5	1168	51
2283943	225/45R15	87W	-	BSW	200 AA/A	7.0- 8.5	8.9 on 7.5	23.0	21.4	10.6	877	8.5	1201	51
2284043	205/55R16	91W	-	BSW	200 AA/A	5.5- 7.5	8.4 on 6.5	24.9	23.0	11.5	810	8.5	1356	51
2271263	225/50R16	92W	-	BSW	200 AA/A	6.0- 8.0	9.2 on 7.0	24.9	24.2	11.5	810	8.5	1389	51
2283953	215/45R17	91W	XL	BSW	200 AA/A	7.0- 8.0	8.4 on 7.0	24.6	22.7	11.5	820	8.5	1356	50
2271273	225/45R17	94W	XL	BSW	200 AA/A	7.0- 8.5	8.9 on 7.5	25.0	23.8	11.6	807	8.5	1477	50
2283963	235/45R17	94W	-	BSW	200 AA/A	7.5- 9.0	9.3 on 8.0	25.4	24.5	11.8	794	8.5	1477	51
2283973	245/40R17	91W	-	BSW	200 AA/A	8.0- 9.5	9.8 on 8.5	24.7	24.9	11.5	817	8.5	1356	51
2271283	245/45R17	99W	XL	BSW	200 AA/A	7.5- 9.0	9.6 on 8.0	25.7	26.2	11.9	785	8.5	1709	50
2271293	255/40R17	98W	XL	BSW	200 AA/A	8.5- 10.0	10.2 on 9.0	25.0	25.9	11.6	807	8.5	1653	50
2271303	225/40R18	92W	XL	BSW	200 AA/A	7.5- 9.0	9.1 on 8.0	25.1	23.5	11.8	804	8.5	1389	50
2283983	235/40R18	95W	XL	BSW	200 AA/A	8.0- 9.5	9.5 on 8.5	25.4	25.1	11.9	794	8.5	1521	50
2283993	245/40R18	97W	XL	BSW	200 AA/A	8.0- 9.5	9.8 on 8.5	25.7	26.1	12.0	785	8.5	1609	50
2284053	255/35R18	94W	XL	BSW	200 AA/A	8.5- 10	10.2 on 9.0	25.0	26.3	11.7	807	8.5	1477	50
2284003	265/35R18	97W	XL	BSW	200 AA/A	9.0- 10.5	10.7 on 9.5	25.3	27.1	11.9	797	8.5	1609	50
2284013	275/35R18	95W	-	BSW	200 AA/A	9.0- 11.0	10.9 on 9.5	25.6	28.4	11.9	788	8.0	1521	51
2284063	235/35R19	91W	XL	BSW	200 AA/A	8.0- 9.5	9.5 on 8.5	25.5	24.6	12.0	791	8.0	1356	50
2284023	275/35R19	96W	-	BSW	200 AA/A	9.0- 11.0	10.9 on 9.5	26.6	29.0	12.5	758	8.5	1565	51
2284033	305/30R19	102W	XL	BSW	200 AA/A	10.5- 11.5	12.3 on 11	26.3	30.5	12.3	767	8.5	1874	50
2284073	245/35R19	93W	XL	BSW	200 AA/A	8.0- 9.5	9.8 on 8.5	25.8	25.8	12.1	782	8.0	1433	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

ECSTA V720

STREET PERFORMANCE UNLEASHED

Class: Extreme Performance Summer

The Ecsta V720 was bred for autocross and domesticated for civil society. It offers heart-pounding performance on dry pavement, cool confidence on wet, and unusually long life for a tire that lives this fast.

BENEFITS & TECHNOLOGY

- Solid center rib maintains high-speed stability for precision control under duress

- Wide, optimized outside blocks deliver excellent grip around corners and exceptionally stable dry handling

- Crossed lateral grooves channel water away from the tread for enhanced wet handling. Inside grooves reduce hydroplaning. Outside grooves clear water from the shoulder block for better wet cornering

- Heat dispersion by 3D hot dimples helps extend the tread life and improve wet performance

Tread Classification: Asymmetric | UTQG 200 AA/A | W RATED

PERFORMANCE RATINGS

DRY	10
WET	7
NOISE	6
WEAR	5
COMFORT	5
SNOW	N/A
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLE

BMW M3; Ford Mustang GT500-KR; Honda S2000; Mini Cooper S; Pontiac G8; Porsche 911; Subaru WRX STI; Volkswagen Golf GTI

COMPARABLE COMPETITOR PRODUCTS

BFG g-Force Rival S; Bridgestone RE-71R; Dunlop Direzza ZIII; Hankook R-S4

Available tire sizes on next page.

ECSTA V720

...Continued from previous page

TREAD CODE V720

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2182443	225/45R15	87W	-	BSW	200 AA/A	7.0- 8.5	8.9 on 7.5	23.0	22.3	10.6	869	8.0	1201	51
2141383	235/45R17	94W	-	BSW	200 AA/A	7.5- 9.0	9.3 on 8.0	25.4	26.3	11.8	787	8.0	1477	51
2182403	245/40R17	91W	-	BSW	200 AA/A	8.0- 9.5	9.8 on 8.5	24.7	26.3	11.5	809	8.0	1356	51
2182393	235/40R18	91W	-	BSW	200 AA/A	8.0- 9.5	9.5 on 8.5	25.4	25.8	11.9	787	8.0	1356	51
2202743	265/35R18	97W	XL	BSW	200 AA/A	9.0- 10.5	10.7 on 9.5	25.3	28.0	11.9	790	8.0	1609	50
2231043	275/35R18	95W	-	BSW	200 AA/A	9.0- 11.0	10.9 on 9.5	25.6	28.7	11.9	781	8.0	1521	51
2231063	285/30R18	93W	-	BSW	200 AA/A	9.5- 10.5	11.4 on 10.0	24.8	28.8	11.6	806	8.0	1433	51
2202753	305/30R19	102W	XL	BSW	200 AA/A	10.5- 11.5	12.3 on 11.0	26.3	33.3	12.3	760	8.0	1874	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

1-800-HI-KUMHO   9

ECSTA V720 ACR

DESIGNED TO OUTPERFORM, DRIVEN TO WIN

Class: Streetable Track & Competition

The Ecsta V720 ACR was developed as the original equipment tire for the Dodge Viper ACR. The V720 ACR's massive shoulders help deliver unparalleled responsiveness and handling, allowing it to handle up to 1.5g forces during high-speed turns. Kumho's ESCOT Tension Control Technology helps to constantly maximize contact of the tire with the track to provide outstanding traction at all times. All of this comes together to create a tire capable of transferring large amounts of horsepower and torque to the ground and being able to take corners at higher speeds. This makes the Ecsta V720 ACR tire the ideal choice for anyone looking to compete on the track.

BENEFITS & TECHNOLOGY

- Wide, optimized outside shoulder blocks deliver excellent grip around corners and exceptionally stable dry handling

- Solid center rib helps maintain high-speed stability for precision control

- Kumho's ESCOT technology helps maintain the contact patch of the tire by optimizing the shoulder, sidewall, and bead rigidity

- Super high-grip tread compound and revolutionary tread design allow for slick-like performance early on in tread life

Tread Classification: Asymmetric | UTQG 200 A/A | Y RATED

PERFORMANCE RATINGS

DRY	10
WET	7
NOISE	6
WEAR	6
COMFORT	5
SNOW	N/A
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Dodge Viper ACR; Chevrolet Corvette

COMPARABLE COMPETITOR PRODUCTS

Michelin Pilot Sport Cup 2; Pirelli P Zero Corsa System; Yokohama ADVAN A048

Available tire sizes on next page.

ECSTA V720 ACR

TREAD CODE V720 ACR

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2203723	P295/25ZR19	90Y	-	BSW	200 A/A	10.0- 11.0	12.1 on 10.5	24.9	27.3	12.4	803	6.0	1323	51
2202803	P355/30ZR19	99Y	LL	BSW	200 A/A	12.0- 13.0	14.2 on 12.5	27.5	40.9	13.7	727	6.5	1709	51

LL- Light Load | BSW- Black Sidewall

ECSTa PS91

MAX SUMMER PERFORMANCE

Class: Max Performance Summer

Developed for the ultimate supercar enthusiast, the Ecsta PS91 delivers a high level of wet and dry handling performance at high speeds on and off the track.

BENEFITS & TECHNOLOGY

- A compounded rib tread design increases stability and performance at high speeds

- Application of cosmetic racing-flag tread indentations portray an exotic supercar image

- The C-Cut 3D design enhances block stiffness, providing optimum braking performance and stability

- The 3D dimple design minimizes internal heat which maximizes block durability

- The sidewall's racing-inspired checkered design communicates the tire's ultra-high performance capabilities

Tread Classification: Asymmetric | UTQG 260 AA/A | (Y) RATED

PERFORMANCE RATINGS

DRY	9
WET	9
NOISE	8
WEAR	6.5
COMFORT	7
SNOW	N/A
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Audi R8; BMW M6; Chevrolet Corvette; Dodge Challenger Hellcat; Ferrari F430; Porsche 911

COMPARABLE COMPETITOR PRODUCTS

Michelin Pilot Sport 4S; Pirelli P Zero; Continental ExtremeContact Sport

Available tire sizes on next page.

ECSTA PS91

TREAD CODE PS91

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2167343	225/40ZR18	92(Y)	XL	BSW	260 AA/A	7.5- 9.0	9.1 on 8.0	25.1	23.2	11.8	796	9.5	1389	50
2167403	225/45ZR18	95(Y)	XL	BSW	260 AA/A	7.0- 8.5	8.9 on 7.5	25.9	22.6	12.1	772	9.0	1521	50
2167333	235/40ZR18	95(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.5 on 8.5	25.4	24.2	11.9	787	9.5	1521	50
2167323	245/35ZR18	92(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.8 on 8.5	24.8	24.2	11.6	806	9.5	1389	50
2167313	245/40ZR18	97(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.8 on 8.5	25.7	24.3	12.0	778	9.5	1609	50
2167303	245/45ZR18	100(Y)	XL	BSW	260 AA/A	7.5- 9.0	9.6 on 8.0	26.7	27.3	12.4	749	9.5	1764	50
2167293	255/35ZR18	94(Y)	XL	BSW	260 AA/A	8.5- 10.0	10.2 on 9.0	25.0	24.8	11.7	800	9.5	1477	50
2181423	255/40ZR18	99(Y)	XL	BSW	260 AA/A	8.5- 10.0	10.2 on 9.0	26.0	26.1	12.1	769	9.0	1709	50
2181433	265/35ZR18	97(Y)	XL	BSW	260 AA/A	9.0- 10.5	10.7 on 9.5	25.3	26.8	11.9	790	9.0	1609	50
2167253	265/40ZR18	101(Y)	XL	BSW	260 AA/A	9.0- 10.5	10.7 on 9.5	26.3	28.9	12.3	760	9.5	1819	50
2167233	275/35ZR18	99(Y)	XL	BSW	260 AA/A	9.0- 11.0	10.9 on 9.5	25.6	28.2	11.9	781	9.5	1709	50
2167223	275/40ZR18	103(Y)	XL	BSW	260 AA/A	9.0- 11.0	10.9 on 9.5	26.7	30.3	12.4	749	9.5	1929	50
2167383	225/35ZR19	88(Y)	XL	BSW	260 AA/A	7.5- 9.0	9.1 on 8.0	25.2	20.4	11.9	793	9.5	1235	50
2175413	225/40ZR19	93(Y)	XL	BSW	260 AA/A	7.5- 9.0	9.1 on 8.0	26.1	22.7	12.3	766	9.5	1433	50
2160853	235/35ZR19	91(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.5 on 8.5	25.5	22.4	12.0	784	10.0	1356	50
2160873	245/35ZR19	93(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.8 on 8.5	25.8	26.1	12.1	775	10.0	1433	50
2173253	245/40ZR19	98(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.8 on 8.5	26.7	27.0	12.5	749	9.5	1653	50
2167373	245/45ZR19	102(Y)	XL	BSW	260 AA/A	7.5- 9.0	9.6 on 8.0	27.7	28.9	12.9	722	9.0	1874	50
2173283	255/30ZR19	91(Y)	XL	BSW	260 AA/A	8.5- 9.5	10.2 on 9.0	25.1	25.3	11.9	796	9.5	1356	50
2160903	255/35ZR19	96(Y)	XL	BSW	260 AA/A	8.5- 10.0	10.2 on 9.0	26.0	27.7	12.2	769	10.0	1565	50
2175453	255/40ZR19	100(Y)	XL	BSW	260 AA/A	8.5- 10.0	10.2 on 9.0	27.0	26.4	12.6	740	9.5	1764	50
2175443	255/45ZR19	104(Y)	XL	BSW	260 AA/A	8.0- 9.5	10.0 on 8.5	28.1	26.8	13.0	711	9.5	1984	50
2167263	265/30ZR19	93(Y)	XL	BSW	260 AA/A	9.0- 10.0	10.7 on 9.5	25.3	26.6	12.0	790	9.5	1433	50
2160883	265/35ZR19	98(Y)	XL	BSW	260 AA/A	9.0- 10.5	10.7 on 9.5	26.3	28.9	12.4	760	10.0	1653	50
2181443	275/30ZR19	96(Y)	XL	BSW	260 AA/A	9.0- 10.0	10.9 on 9.5	25.6	25.9	12.1	781	9.0	1565	50
2175433	275/35ZR19	100(Y)	XL	BSW	260 AA/A	9.0- 11.0	10.9 on 9.5	26.6	30.2	12.5	751	9.5	1764	50
2167213	275/40ZR19	105(Y)	XL	BSW	260 AA/A	9.0- 11.0	10.9 on 9.5	27.7	31.2	12.9	722	9.0	2039	50
2160913	285/30ZR19	98(Y)	XL	BSW	260 AA/A	9.5- 10.5	11.4 on 10.0	25.8	30.1	12.1	775	10.0	1653	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

ECSTA PS91

TREAD CODE PS91

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2181453	285/35ZR19	103(Y)	XL	BSW	260 AA/A	9.5- 11.0	11.4 on 10.0	26.9	31.0	12.6	743	9.0	1929	50
2176033	285/40ZR19	107(Y)	XL	BSW	260 AA/A	9.5- 11.0	11.4 on 10.0	28.0	32.9	13.0	714	9.5	2150	50
2160893	295/30ZR19	100(Y)	XL	BSW	260 AA/A	10.0- 11.0	11.9 on 10.5	26.0	31.0	12.2	769	10.0	1764	50
2176023	305/30ZR19	102(Y)	XL	BSW	260 AA/A	10.5- 11.5	12.3 on 11.0	26.3	32.2	12.3	760	9.5	1874	50
2175423	235/35ZR20	92(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.5 on 8.5	26.5	23.9	12.5	754	9.5	1389	50
2160863	245/35ZR20	95(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.8 on 8.5	26.8	28.1	12.6	746	10.0	1521	50
2208643	245/40ZR20	99(Y)	XL	BSW	260 AA/A	8.0- 9.5	9.8 on 8.5	27.7	28.2	13.0	722	9.5	1709	50
2175463	245/45ZR20	103(Y)	XL	BSW	260 AA/A	7.5- 9.0	9.6 on 8.0	28.7	29.6	13.4	696	9.5	1929	50
2167283	255/35ZR20	97(Y)	XL	BSW	260 AA/A	8.5- 10.0	10.2 on 9.0	27.0	28.7	12.7	740	9.5	1609	50
2167273	255/40ZR20	101(Y)	XL	BSW	260 AA/A	8.5- 10.0	10.2 on 9.0	28.0	30.0	13.1	714	9.5	1819	50
2173263	265/35ZR20	99(Y)	XL	BSW	260 AA/A	9.0- 10.5	10.7 on 9.5	27.3	30.0	12.9	732	9.5	1709	50
2167243	275/30ZR20	97(Y)	XL	BSW	260 AA/A	9.0- 10.0	11.3 on 9.5	26.6	28.5	12.6	751	9.5	1609	50
2167363	275/35ZR20	102(Y)	XL	BSW	260 AA/A	9.0- 11.0	10.9 on 9.5	27.6	31.4	12.9	724	9.0	1874	50
2173273	275/40ZR20	106(Y)	XL	BSW	260 AA/A	9.0- 11.0	10.9 on 9.5	28.7	32.5	13.4	696	9.5	2094	50
2167193	285/35ZR20	104(Y)	XL	BSW	260 AA/A	9.5- 11.0	11.4 on 10.0	27.9	33.5	13.1	716	9.5	1984	50
2160923	295/30ZR20	101(Y)	XL	BSW	260 AA/A	10.0- 11.0	11.9 on 10.5	27.0	32.8	12.7	740	10.0	1819	50
2167183	295/35ZR20	105(Y)	XL	BSW	260 AA/A	10.0- 11.5	11.9 on 10.5	28.1	33.9	13.2	711	9.5	2039	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

ECSTA PS31

SUMMER UHP

Class: Ultra-High Performance Summer

Designed to take any driver to the next level, the Ecsta PS31 proves that a perfect balance of high-speed stability, low road noise and safety can be achieved in a tire.

BENEFITS & TECHNOLOGY

- A solid center rib and stylish lateral grooves reinforce block stiffness and improve wet braking
- Wide lateral grooves maximize water displacement when cornering and prevent irregular wear due to the 0-10 degree angle range
- Wide four-channel circumferential grooves improve hydroplaning resistance
- 3D dimple design minimizes heat build-up on tread blocks, enhancing high-speed durability
- Microgrooves with diagonal siping allow water to drain efficiently to avoid hydroplaning

Tread Classification: Directional | UTQG 400 A/A, 460 A/A | V & W RATED

PERFORMANCE RATINGS

DRY	8.5
WET	8.5
NOISE	7.5
WEAR	7
COMFORT	7
SNOW	N/A
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Audi A4; BMW 3 Series; Ford Mustang; Mini Cooper; Nissan 370Z; Subaru BRZ

COMPARABLE COMPETITOR PRODUCTS

Bridgestone Potenza RE760 Sport; BFG g-Force Sport COMP-2; Hankook Ventus V12 evo2; Pirelli Cinturato P7

Available tire sizes on next page.

ECSTA PS31

TREAD CODE PS31

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2267923	185/55R15	82V	-	BSW	460 A/A	5.0- 6.5	7.6 on 6.0	23.0	16.7	10.6	869	10.0	1047	51
2268653	195/50R15	82V	-	BSW	460 A/A	5.5- 7.0	7.9 on 6.0	22.7	17.1	10.5	888	10.0	1047	51
2268633	195/55R15	85V	-	BSW	460 A/A	5.5- 7.0	7.9 on 6.0	23.4	18.0	10.8	860	10.0	1135	51
2268663	205/50R15	86V	-	BSW	460 A/A	5.5- 7.5	8.4 on 6.5	23.1	17.9	10.7	873	10.0	1168	51
2268723	205/45ZR16	87W	XL	BSW	460 A/A	6.5- 7.5	8.1 on 7.0	23.2	18.1	10.8	869	10.0	1201	50
2268683	205/50ZR16	87W	-	BSW	460 A/A	5.5- 7.5	8.4 on 6.5	24.1	18.7	11.2	837	10.0	1201	51
2267943	205/55ZR16	91W	-	BSW	460 A/A	5.5- 7.5	8.4 on 6.5	24.9	20.4	11.5	810	10.0	1356	51
2268643	205/55R15	88V	-	BSW	460 A/A	5.5- 7.5	8.4 on 6.5	23.9	19.3	11.0	845	10.0	1235	51
2253523	215/55ZR16	97W	XL	BSW	460 A/A	6.0- 7.5	8.9 on 7.0	25.3	23.0	11.6	790	10.0	1609	50
2268693	225/50ZR16	92W	-	BSW	460 A/A	6.0- 8.0	9.2 on 7.0	24.9	21.4	11.5	845	10.0	1389	51
2253713	225/55ZR16	95W	-	BSW	460 A/A	6.0- 8.0	9.2 on 7.0	25.7	23.4	11.8	778	10.0	1521	51
2268763	205/40ZR17	84W	XL	BSW	460 A/A	7.0- 8.0	8.3 on 7.5	23.5	18.2	11.0	889	9.5	1102	50
2268013	205/45ZR17	88W	XL	BSW	460 A/A	6.5- 7.5	8.1 on 7.0	24.3	19.6	11.3	830	10.0	1235	50
2268073	205/50ZR17	93W	XL	BSW	460 A/A	5.5- 7.5	8.4 on 6.5	25.1	20.3	11.7	804	10.0	1433	50
2268803	215/40ZR17	87W	XL	BSW	460 A/A	7.0- 8.5	8.6 on 7.5	23.8	19.5	11.1	847	10.0	1201	50
2267893	215/45ZR17	91W	XL	BSW	460 A/A	7.0- 8.0	8.4 on 7.0	24.6	20.3	11.5	813	10.0	1356	50
2267873	215/50ZR17	95W	XL	BSW	460 A/A	6.0- 7.5	8.9 on 7.0	25.5	24.1	11.8	791	10.0	1521	50
2267933	215/55ZR17	94W	-	BSW	460 A/A	6.0- 7.5	8.9 on 7.0	26.3	23.2	12.1	760	10.0	1477	51
2268023	225/45ZR17	94W	XL	BSW	460 A/A	7.0- 8.5	8.9 on 7.5	25.0	22.7	11.6	800	10.0	1477	50
2267983	225/50ZR17	98W	XL	BSW	460 A/A	6.0- 8.0	9.2 on 7.0	25.9	24.6	12.0	772	10.0	1653	50
2267953	225/55ZR17	101W	XL	BSW	460 A/A	6.0- 8.0	9.2 on 7.0	26.8	26.1	12.3	746	10.0	1819	50
2268753	235/45ZR17	94W	-	BSW	460 A/A	7.5- 9.0	9.3 on 8.0	25.4	24.0	11.8	794	10.0	1477	51
2268713	235/50ZR17	100W	XL	BSW	460 A/A	6.5- 8.5	9.6 on 7.5	26.3	26.7	12.1	767	10.0	1764	50
2267963	235/55ZR17	103W	XL	BSW	460 A/A	6.5- 8.5	9.6 on 7.5	27.2	26.9	12.5	741	10.0	1929	50
2268623	245/40ZR17	91W	-	BSW	460 A/A	8.0- 9.5	9.8 on 8.5	24.7	24.2	11.5	809	10.0	1356	51
2253583	245/45ZR17	95W	-	BSW	460 A/A	7.5- 9.0	9.6 on 8.0	25.7	24.8	11.9	778	10.5	1521	51
2268793	275/40ZR17	98W	-	BSW	460 A/A	9.0- 11.0	10.9 on 9.5	25.7	28.4	11.9	785	10.0	1653	51
2253783	215/40ZR18	89W	XL	BSW	460 A/A	7.0- 8.5	8.6 on 7.5	24.8	19.6	11.6	806	10.0	1279	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

ECSTA PS31

TREAD CODE PS31

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2267913	215/45ZR18	93W	XL	BSW	460 A/A	7.0- 8.0	8.4 on 7.0	25.6	22.6	12.0	781	10.0	1433	50
2268033	225/40ZR18	92W	XL	BSW	460 A/A	7.5- 9.0	9.1 on 8.0	25.1	23.3	11.8	796	10.0	1389	50
2268743	225/45ZR18	91W	-	BSW	460 A/A	7.0- 8.5	8.9 on 7.5	25.9	24.0	12.1	772	10.0	1356	51
2268703	225/50ZR18	95W	-	BSW	460 A/A	6.0- 8.0	9.2 on 7.0	26.9	25.1	12.5	750	10.0	1521	51
2253673	235/40ZR18	95W	XL	BSW	460 A/A	8.0- 9.5	9.5 on 8.5	25.4	23.4	11.9	787	10.5	1521	50
2268043	235/45ZR18	98W	XL	BSW	460 A/A	7.5- 9.0	9.3 on 8.0	26.3	24.8	12.3	767	10.0	1653	50
2268773	235/50ZR18	101W	XL	BSW	460 A/A	6.5- 8.5	9.6 on 7.5	27.3	26.6	12.6	739	10.0	1819	50
2253703	245/40ZR18	97W	XL	BSW	460 A/A	8.0- 9.5	9.8 on 8.5	25.7	24.4	12.0	778	10.0	1609	50
2267993	245/45ZR18	100W	XL	BSW	460 A/A	7.5- 9.0	9.6 on 8.0	26.7	26.5	12.4	749	10.0	1764	50
2253803	245/50ZR18	100W	-	BSW	460 A/A	7.0- 8.5	10.0 on 7.5	27.7	28.1	12.8	722	10.5	1764	51
2268833	255/35ZR18	94W	XL	BSW	460 A/A	8.5- 10.0	10.2 on 9.0	25.0	24.9	11.7	807	10.0	1477	50
2262263	255/45ZR18	103W	XL	BSW	460 A/A	8.0- 9.0	10.0 on 8.5	27.0	27.7	12.5	740	10.0	1929	50
2268813	265/35ZR18	97W	XL	BSW	460 A/A	9.0- 10.5	10.7 on 9.5	25.3	26.2	11.9	790	10.0	1609	50
2268063	275/35ZR18	99W	XL	BSW	460 A/A	9.0- 11.0	10.9 on 9.5	25.6	28.0	11.9	788	10.0	1709	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

ECSTA PA51

RE-SETTING THE BAR FOR ULTRA-HIGH PERFORMANCE ALL-SEASON TIRES

Class: Ultra-High Performance All-Season

With its state-of-the-art tread-design and new innovative compound, the Ecsta PA51 is able to deliver the enhanced handling, traction and extended tread-life needed for today's high performance vehicles while also providing the quiet and comfortable ride that owners expect all year.

BENEFITS & TECHNOLOGY

- Confidence-instilling traction comes from its asymmetrical tread-design and full-depth sipes that are able to give superb traction in the snow or rain

- A strong central rib and rigid outside shoulder give exceptional traction and stability, even in tight curves and corners

- A balanced and wide footprint provides even contact with the road, allowing for longer tread life

- Variable pitch tread design lowers road harmonics for a quieter, more comfortable ride; especially at high speeds

- Circumferential and lateral grooves along with full-depth sipes help to expel water and snow quickly to help improve control, even in inclement weather

Tread Classification: Asymmetric | UTQG 500 AA/A | V & W RATED

SATISFACTION GUARANTEED
30 DAYS WARRANTY

45K MILEAGE WARRANTY

ROAD HAZARD PROTECTION
KUMHO TIRE

PERFORMANCE RATINGS

DRY	8
WET	8.5
NOISE	8
WEAR	7.5
COMFORT	8
SNOW	7.5
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type. A rating of 10 indicates that the tire is designed to perform extremely well under those conditions. A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor

SAMPLE VEHICLES

BMW 3 & 5 Series; Mazda Miata; Kia Forte; Subaru Impreza; Mazda 6; Mini Cooper; Lexus IS350

COMPARABLE COMPETITOR PRODUCTS

General G-MAX AS-05; Michelin Pilot Sport A/S 3+; Toyo Proxes 4 Plus; Continental ExtremeContact DWS 06; Yokohama ADVAN Sport A/S+; Bridgestone Potenza RE980AS

Available tire sizes on next page.

ECSTa PA51

TREAD CODE PA51

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2265073	195/50R16	84V	-	BSW	500 AA/A	5.5- 7.0	7.9 on 6.0	23.7	18.6	11.0	843	10.5	1102	51
2248323	205/50R16	87V	-	BSW	500 AA/A	5.5- 7.5	8.4 on 6.5	24.1	20.9	11.2	829	11.0	1201	51
2265043	185/55R16	83V	-	BSW	500 AA/A	5.0- 6.5	7.6 on 6.0	24.0	18.0	11.1	869	10.5	1074	51
2265083	195/55R16	87V	-	BSW	500 AA/A	5.5- 7.0	7.9 on 6.0	24.4	19.6	11.3	854	10.5	1201	51
2247883	205/55ZR16	91W	-	BSW	500 AA/A	5.5- 7.5	8.4 on 6.5	24.9	21.7	11.5	803	11.0	1356	51
2248043	215/55R16	93V	-	BSW	500 AA/A	6.0- 7.5	8.9 on 7.0	25.3	22.9	11.6	790	11.0	1433	51
2248163	225/50ZR16	92W	-	BSW	500 AA/A	6.0- 8.0	9.2 on 7.0	24.9	22.2	11.5	803	11.0	1389	51
2248103	205/40ZR17	84W	XL	BSW	500 AA/A	7.0- 8.0	8.3 on 7.5	23.5	18.9	11.0	851	11.0	1102	50
2248393	205/45R17	88V	XL	BSW	500 AA/A	6.5- 7.5	8.1 on 7.0	24.3	20.3	11.3	823	11.0	1235	50
2247983	205/50ZR17	93W	XL	BSW	500 AA/A	5.5- 7.5	8.4 on 6.5	25.1	21.3	11.7	796	11.0	1433	50
2247963	215/45ZR17	91W	XL	BSW	500 AA/A	7.0- 8.0	8.4 on 7.0	24.6	21.2	11.5	813	11.0	1356	50
2247973	215/50ZR17	95W	XL	BSW	500 AA/A	6.0- 7.5	8.9 on 7.0	25.5	23.5	11.8	784	11.0	1521	50
2247903	215/55ZR17	94W	-	BSW	500 AA/A	6.0- 7.5	8.9 on 7.0	26.3	23.8	12.1	760	11.0	1477	51
2247933	225/45ZR17	94W	XL	BSW	500 AA/A	7.0- 8.5	8.9 on 7.5	25.0	22.2	11.6	800	11.0	1477	50
2247893	225/50ZR17	98W	XL	BSW	500 AA/A	6.0- 8.0	9.2 on 7.0	25.9	25.4	12.0	772	11.0	1653	50
2261143	225/55ZR17	97W	-	BSW	500 AA/A	6.0- 8.0	9.2 on 7.0	26.8	26.4	12.3	746	11.0	1609	51
2247913	235/45ZR17	97W	XL	BSW	500 AA/A	7.5- 9.0	9.3 on 8.0	25.4	25.0	11.8	787	11.0	1609	50
2261993	235/50ZR17	96W	-	BSW	500 AA/A	6.5- 8.5	9.6 on 7.5	26.3	27.2	12.1	760	11.0	1565	51
2261133	235/55ZR17	99W	-	BSW	500 AA/A	6.5- 8.5	9.6 on 7.5	27.2	28.8	12.5	735	11.0	1709	51
2261163	245/40ZR17	91W	-	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	24.7	25.1	11.5	809	11.0	1356	51
2248013	245/45ZR17	95W	-	BSW	500 AA/A	7.5- 9.0	9.6 on 8.0	25.7	27.0	11.9	778	11.0	1521	51
2261123	245/50ZR17	99W	-	BSW	500 AA/A	7.0- 8.5	10.0 on 7.5	26.7	28.1	12.3	749	11.0	1709	51
2261113	255/40ZR17	94W	-	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	25.0	27.3	11.6	800	11.0	1477	51
2248173	275/40R17	98W	-	BSW	500 AA/A	9.0- 11.0	10.9 on 9.5	25.7	29.3	11.9	778	11.0	1653	51
2247873	215/40ZR18	89W	XL	BSW	500 AA/A	7.0- 8.5	8.6 on 7.5	24.8	22.3	11.6	806	11.0	1279	50
2261153	215/45ZR18	93W	XL	BSW	500 AA/A	7.0- 8.0	8.4 on 7.0	25.6	24.3	12.0	781	11.0	1433	50
2244723	225/40R18	92W	XL	BSW	500 AA/A	7.5- 9.0	9.1 on 8.0	25.1	25.3	11.8	796	10.5	1389	50
2248153	225/45ZR18	95W	XL	BSW	500 AA/A	7.0- 8.5	8.9 on 7.5	25.9	24.9	12.1	772	11.0	1521	50
2248423	225/50R18	95W	-	BSW	500 AA/A	6.0- 8.0	9.2 on 7.0	26.9	26.2	12.5	743	11.0	1521	51
2261093	235/40ZR18	95W	XL	BSW	500 AA/A	8.0- 9.5	9.5 on 8.5	25.4	25.6	11.9	787	11.0	1521	50

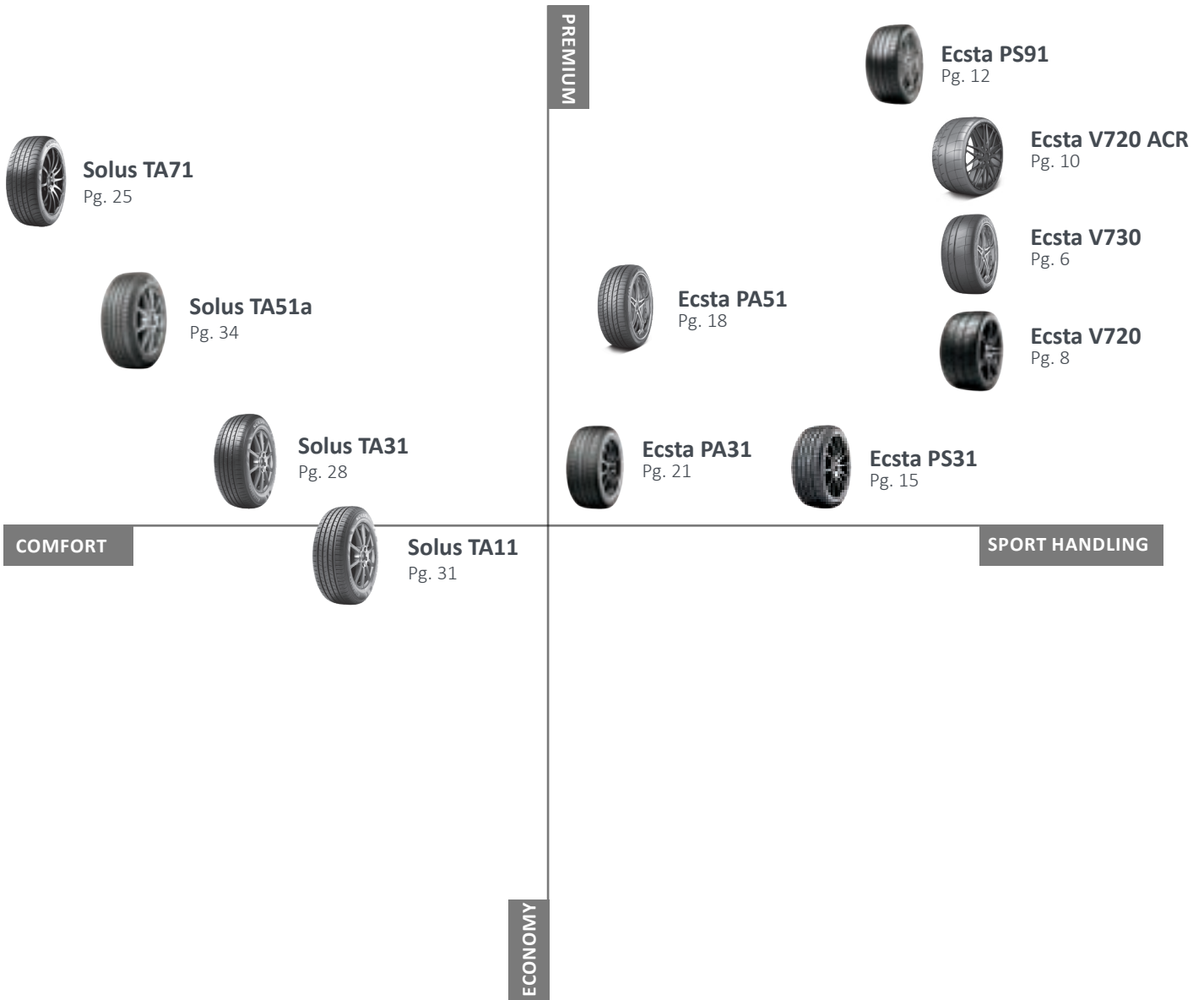XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

ECSTA PA51

TREAD CODE PA51

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2261103	235/45ZR18	98W	XL	BSW	500 AA/A	7.5- 9.0	9.3 on 8.0	26.3	26.5	12.3	760	11.0	1653	50
2247943	235/50ZR18	97W	-	BSW	500 AA/A	6.5- 8.5	9.6 on 7.5	27.3	27.6	12.6	732	11.0	1609	51
2261983	235/55ZR18	100W	-	BSW	500 AA/A	6.5- 8.5	9.6 on 7.5	28.1	29.2	13.0	711	11.0	1764	51
2247553	245/40R18	97W	XL	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	25.7	28.2	12.0	778	10.5	1609	50
2248123	245/45ZR18	100W	XL	BSW	500 AA/A	7.5- 9.0	9.6 on 8.0	26.7	27.1	12.4	749	11.0	1764	50
2248333	245/50ZR18	100W	-	BSW	500 AA/A	7.0- 8.5	10.0 on 7.5	27.7	29.8	12.8	722	11.0	1764	51
2248363	255/35ZR18	94W	XL	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	25.0	27.1	11.7	800	11.0	1477	50
2248343	255/40R18	99W	XL	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	26.0	28.4	12.1	769	11.0	1709	50
2248483	255/45R18	103W	XL	BSW	500 AA/A	8.0- 9.0	10.0 on 8.5	27.0	29.8	12.5	740	11.0	1929	50
2248403	265/35R18	97W	XL	BSW	500 AA/A	9.0- 10.5	10.7 on 9.5	25.3	28.2	11.9	790	11.0	1609	50
2262123	275/35R18	95W	-	BSW	500 AA/A	9.0- 11.0	10.9 on 9.5	25.6	28.8	11.9	781	11.0	1521	51
2247833	275/40R18	99W	-	BSW	500 AA/A	9.0- 11.0	10.9 on 9.5	26.7	30.6	12.4	749	11.0	1709	51
2248413	225/40ZR19	93W	XL	BSW	500 AA/A	7.5- 9.0	9.1 on 8.0	26.1	26.8	12.3	766	11.0	1433	50
2261943	225/45ZR19	92W	-	BSW	500 AA/A	7.0- 8.5	8.9 on 7.5	27.0	27.2	12.6	740	11.0	1389	51
2247863	245/35R19	93W	XL	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	25.8	27.4	12.1	775	11.0	1433	50
2248063	245/40R19	98W	XL	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	26.7	29.2	12.5	749	11.0	1653	50
2248373	245/45R19	102W	XL	BSW	500 AA/A	7.5- 9.0	9.6 on 8.0	27.7	30.7	12.9	722	11.0	1874	50
2261953	245/50R19	105W	XL	BSW	500 AA/A	7.0- 8.5	10.0 on 7.5	26.9	32.0	12.6	743	11.0	2039	50
2248443	255/35ZR19	96W	XL	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	26.0	28.6	12.2	769	11.0	1565	50
2262113	255/40R19	100W	XL	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	27.0	30.0	12.6	740	11.0	1764	50
2262133	275/35R19	100W	XL	BSW	500 AA/A	9.0- 11.0	10.9 on 9.5	26.6	31.2	12.5	751	11.0	1764	50
2248463	275/40ZR19	105W	XL	BSW	500 AA/A	9.0- 11.0	10.9 on 9.5	27.7	32.7	12.9	722	11.0	2039	50
2262183	285/35R19	99W	-	BSW	500 AA/A	9.5- 11.0	11.4 on 10.0	26.9	32.9	12.6	743	11.0	1709	51
2248303	245/35ZR20	95W	XL	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	26.8	28.3	12.6	746	11.0	1521	50
2247823	245/40R20	99W	XL	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	27.7	30.1	13.0	722	11.0	1709	50
2247953	245/45ZR20	99W	-	BSW	500 AA/A	7.5- 9.0	9.6 on 8.0	28.7	31.1	13.4	696	11.0	1709	51
2248473	255/35R20	97W	XL	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	27.0	30.0	12.7	740	11.0	1609	50
2248133	255/45R20	105W	XL	BSW	500 AA/A	8.0- 9.5	10.0 on 8.5	29.1	33.0	13.5	687	11.0	2039	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

ECSTA PA31

A NEW LEVEL OF HIGH MILEAGE, HIGH-PERFORMANCE ENGINEERING

Class: High-Performance All-Season

Designed, engineered and produced specifically for today's growing number of mid-level sports sedans and coupes, the Ecsta PA31 delivers outstanding street performance and excellent mileage. Wet and dry handling worthy of the high-performance moniker while excelling in light snow conditions, the Ecsta PA31 distinguishes itself with an unparalleled combination of comfort, low noise, high performance and long mileage.

BENEFITS & TECHNOLOGY

- Heavy sipe density and large cross grooves expel water quickly, improving snow and wet weather handling

- The directional tread design is shaped to avoid uneven wear and delivers excellent steering, cornering and braking in all-season conditions

- The variable pitch shoulder blocks reduce road noise throughout the life of the tire

55K MILEAGE WARRANTY

Tread Classification: Directional | 500 A/A | V RATED

PERFORMANCE RATINGS

Category	Rating
DRY	7.5
WET	8.5
NOISE	7.5
WEAR	7.5
COMFORT	8
SNOW	6.5
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type. A rating of 10 indicates that the tire is designed to perform extremely well under those conditions. A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

BMW 128i; Chevy Cruze, Malibu; Chrysler 200; Dodge Avenger; Ford Focus, Fusion; Honda Civic, CRZ; Hyundai Veloster; Mini Cooper; Scion FR-S; Subaru BRZ, Impreza

COMPARABLE COMPETITOR PRODUCTS

Firestone Firehawk AS; Michelin Pilot Sport A/S 3+; Hankook V2 concept 2; Yokohama AVID ENVigor; Goodyear Eagle Sport A/S

Available tire sizes on next page.

ECSTA PA31

TREAD CODE PA31

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2169933	175/65R15	84V	-	BSW	500 A/A	5.0- 6.0	7.0 on 5.0	24.0	17.1	11.0	833	11.0	1102	50
2169913	185/55R15	82V	-	BSW	500 A/A	5.0- 6.5	7.6 on 6.0	23.0	17.9	10.6	869	11.0	1047	50
2160833	195/50R15	82V	-	BSW	500 A/A	5.5- 7.0	7.9 on 6.0	22.7	17.7	10.5	881	11.0	1047	51
2161763	195/55R15	85V	-	BSW	500 A/A	5.5- 7.0	7.9 on 6.0	23.4	19.0	10.8	854	11.0	1135	51
2169923	205/50R15	86V	-	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	23.1	18.7	10.7	865	11.0	1168	50
2169943	195/60R16	89V	-	BSW	500 A/A	5.5- 7.0	7.9 on 6.0	25.2	21.0	11.6	793	11.0	1279	50
2161343	225/55R16	99V	XL	BSW	500 A/A	6.0- 8.0	9.2 on 7.0	25.7	26.2	11.8	778	11.0	1709	50
2161523	235/60R16	100V	-	BSW	500 A/A	6.5- 8.5	9.4 on 7.0	27.1	28.4	12.3	738	11.0	1764	51
2160953	245/50R16	97V	-	BSW	500 A/A	7.0- 8.5	10.0 on 7.5	25.7	27.0	11.8	778	11.0	1609	51
2161783	215/35R18	84V	XL	BSW	500 A/A	7.0- 8.5	8.6 on 7.5	23.9	20.8	11.3	836	11.0	1102	50
2161353	215/55R18	95V	-	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	27.3	24.4	12.6	732	11.0	1521	51
2169963	245/55R18	103V	-	BSW	500 A/A	7.0- 8.5	10.0 on 7.5	28.6	30.5	13.1	699	11.0	1929	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

PASSENGER

Kumho Tire's line of touring tires delivers an impressive blend of ride comfort, reliable traction, low noise and long wear — making these tires an exceptional value. Available low-profile sizes are perfectly suited to fit today's touring sedans. Expect crisp handling and year-round traction.

PREMIUM

Ecsta PS91
Pg. 12

Ecsta V720 ACR
Pg. 10

Solus TA71
Pg. 25

Ecsta V730
Pg. 6

Solus TA51a
Pg. 34

Ecsta PA51
Pg. 18

Ecsta V720
Pg. 8

Solus TA31
Pg. 28

Ecsta PA31
Pg. 21

Ecsta PS31
Pg. 15

COMFORT

Solus TA11
Pg. 31

SPORT HANDLING

ECONOMY

SOLUS *TA71*

PREMIUM COMFORT & EXCEPTIONAL ALL-SEASON PERFORMANCE

Class: Grand Touring All-Season

Exceptional road feel and tight, responsive steering rank the Solus TA71 among the world's elite all-season tires. Quiet comfort and astounding performance on wet and snowy roads make it a natural choice for luxury sedans and for the people who love to drive them.

BENEFITS & TECHNOLOGY

- Excellent wet traction provided by the four wide grooves, which evacuate water quickly

- Tiny gripping edges created by angled snow sipes are fine-tuned for traction on cold, slick surfaces

- Exceptional grip and steering response in any weather, driven by an advanced asymmetric tread and oversized contact area

60K MILEAGE WARRANTY

ROAD HAZARD PROTECTION KUMHO TIRE

Tread Classification: Asymmetric | UTQG 500 AA/A & 600 A/A | V & W RATED

PERFORMANCE RATINGS

DRY	7.5
WET	8.5
NOISE	10
WEAR	8
COMFORT	10
SNOW	6
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Acura RL; Audi A4, A6; BMW 3 Series, 5 Series; Cadillac CTS; Honda Accord; Infiniti G37, M37; Mercedes-Benz C-Class

COMPARABLE COMPETITOR PRODUCTS

Bridgestone Turanza Serenity +; Michelin Premier A/S; Pirelli Cinturato P7 All Season Plus

Available tire sizes on next page.

SOLUS *TA71*

...Continued from previous page

TREAD CODE TA71

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2169533	195/60R15	88V	-	BSW	600 A/A	5.5- 7.0	7.9 on 6.0	24.2	19.4	11.1	826	11.5	1235	51
2169553	205/65R15	94V	-	BSW	600 A/A	5.5- 7.5	8.2 on 6.0	25.5	21.9	11.6	784	11.5	1477	51
2169563	205/55R16	91V	-	BSW	600 A/A	5.5- 7.5	8.4 on 6.5	24.9	21.3	11.5	803	11.5	1356	51
2169583	205/65R16	95V	-	BSW	600 A/A	5.5- 7.5	8.2 on 6.0	26.5	23.3	12.1	754	11.5	1521	51
2169593	215/55R16	97V	XL	BSW	600 A/A	6.0- 7.5	8.9 on 7.0	25.3	23.9	11.6	790	11.5	1609	50
2169603	215/60R16	95V	-	BSW	600 A/A	6.0- 7.5	8.7 on 6.5	26.1	25.0	12.0	766	11.5	1521	51
2169613	225/55R16	95V	-	BSW	600 A/A	6.0- 8.0	9.2 on 7.0	25.7	23.1	11.8	778	11.5	1521	51
2169633	205/50R17	93V	XL	BSW	600 A/A	5.5- 7.5	8.4 on 6.5	25.1	22.3	11.7	796	11.5	1433	50
2169643	215/50R17	95V	XL	BSW	600 A/A	6.0- 7.5	8.9 on 7.0	25.5	24.5	11.8	784	11.5	1521	50
2169653	215/55R17	94V	-	BSW	600 A/A	6.0- 7.5	8.9 on 7.0	26.3	22.3	12.1	760	11.5	1477	51
2278963	225/45ZR17	94W	-	BSW	500 AA/A	7.0- 8.5	8.9 on 7.5	25.0	22.4	11.6	807	11.5	1477	50
2169673	225/50ZR17	98W	XL	BSW	500 AA/A	6.0- 8.0	9.2 on 7.0	25.9	25.7	12.0	772	11.5	1653	50
2169683	225/55R17	101V	XL	BSW	600 A/A	6.0- 8.0	9.2 on 7.0	26.8	27.0	12.3	746	11.5	1819	50
2169693	235/45ZR17	97W	XL	BSW	500 AA/A	7.5- 9.0	9.3 on 8.0	25.4	26.6	11.8	787	11.5	1609	50
2169703	235/50R17	96V	-	BSW	600 A/A	6.5- 8.5	9.6 on 7.5	26.3	26.8	12.1	760	11.5	1565	51
2169713	235/55ZR17	103W	XL	BSW	500 AA/A	6.5- 8.5	9.6 on 7.5	27.2	28.5	12.5	735	11.5	1929	50
2169833	245/40ZR17	91W	-	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	24.7	25.1	11.5	809	11.5	1356	51
2169843	245/45ZR17	99W	XL	BSW	500 AA/A	8.0- 9.0	9.6 on 8.0	25.7	27.2	11.9	778	11.5	1709	50
2169723	245/50R17	99V	-	BSW	600 A/A	7.0- 8.5	10.0 on 7.5	26.7	28.7	12.3	749	11.5	1709	51
2169853	255/40ZR17	94W	-	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	25.0	26.7	11.6	800	11.5	1477	51
2169733	225/40R18	92V	XL	BSW	600 A/A	7.5- 9.0	9.1 on 8.0	25.1	23.4	11.8	796	11.5	1389	50
2169743	225/45ZR18	95W	XL	BSW	500 AA/A	7.0- 8.5	8.9 on 7.5	25.9	26.7	12.1	772	11.5	1521	50
2169753	225/50ZR18	95W	-	BSW	500 AA/A	6.0- 8.0	9.2 on 7.0	26.9	26.6	12.5	743	11.5	1521	51
2169863	225/60R18	100V	-	BSW	600 A/A	6.0- 8.0	9.0 on 6.5	28.6	28.3	13.1	699	11.5	1764	51
2169763	235/40ZR18	95W	XL	BSW	500 AA/A	8.0- 9.5	9.5 on 8.5	25.4	25.7	11.9	787	11.5	1521	50
2169873	235/45R18	98V	XL	BSW	600 A/A	7.5- 9.0	9.3 on 8.0	26.3	26.9	12.3	760	11.5	1653	50
2169773	235/50ZR18	97W	-	BSW	500 AA/A	6.5- 8.5	9.6 on 7.5	27.3	27.8	12.6	732	11.5	1609	51
2169883	235/55R18	100V	-	BSW	600 A/A	6.5- 8.5	9.6 on 7.5	28.1	29.4	13.0	711	11.5	1764	51
2169783	245/40ZR18	97W	XL	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	25.7	28.2	12.0	778	11.5	1609	50
2169793	245/45ZR18	100W	XL	BSW	500 AA/A	7.5- 9.0	9.6 on 8.0	26.7	28.4	12.4	749	11.5	1764	50
2169803	245/50R18	104V	XL	BSW	600 A/A	7.0- 8.5	10.0 on 7.5	27.7	29.9	12.8	722	11.5	1984	50
2169813	255/45ZR18	99W	-	BSW	500 AA/A	8.0- 9.5	10.0 on 8.5	27.0	29.2	12.5	740	11.5	1709	51

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

Information continues on next page ...

26 KumhoTire.com

SOLUS TA71

TREAD CODE TA71

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2169823	245/40ZR19	98W	XL	BSW	500 AA/A	8.0- 9.5	9.8 on 8.5	26.7	28.4	12.5	749	11.5	1653	50
2169893	245/45ZR19	102W	XL	BSW	500 AA/A	7.5- 9.0	9.6 on 8.0	27.7	30.0	12.9	722	11.5	1874	50
2169903	255/40ZR19	100W	XL	BSW	500 AA/A	8.5- 10.0	10.2 on 9.0	27.0	29.6	12.6	740	11.5	1764	50
2181543	255/45ZR19	104W	XL	BSW	500 AA/A	8.0- 9.5	10.0 on 8.5	28.1	31.5	13.0	711	11.5	1984	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

SOLUS TA31

ALL-WEATHER HIGH PERFORMANCE IN COMFORT AND STYLE

Class: Grand Touring, All-Season

Designed for all-season performance with an emphasis on quiet comfort, the TA31 features a compound balanced for mileage and performance, with a tread pattern tuned to all-weather grip.

BENEFITS & TECHNOLOGY

• Wide shoulder blocks create a soft contact edge with the road for better traction and steering response and better grip around corners.

• Siped, four-groove tread creates gripping surfaces that also evacuate water into the central grooves, away from the tire

• Symmetric tread pattern lowers rolling resistance reducing vibration, noise and fuel consumption

60K MILEAGE WARRANTY

ROAD HAZARD PROTECTION
KUMHO TIRE

Tread Classification: Symmetric | UTQG 480 A/A, 500 A/A | T, H & V RATED

PERFORMANCE RATINGS

DRY	8
WET	8
NOISE	9
WEAR	9
COMFORT	9
SNOW	7
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Acura RSX, TL, TSX; BMW 128i, 325i, 528i, X3; Cadillac CTS; Chevy Impala, Malibu; Ford Fusion; Honda Accord, Civic; Hyundai Genesis, Accent; Infiniti G35, G37; Nissan Altima, Maxima; Subaru Legacy, Outback; Toyota Camry, Avalon; Volvo S40, S80

COMPARABLE COMPETITOR PRODUCTS

Bridgestone Ecopia EP422; BFG Advantage TA Sport; Firestone Champion Fuel Fighter; Michelin Premier A/S

Available tire sizes on next page.

TREAD CODE TA31

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2172023	165/65R14	79T	-	BSW	500 A/A	4.5- 6.0	6.7 on 5.0	22.4	14.3	10.3	900	9.5	963	44
2170283	185/65R14	86H	-	BSW	500 A/A	5.0- 6.5	7.4 on 5.5	23.5	16.1	10.7	851	10.0	1168	51
2172033	185/55R15	82H	-	BSW	500 A/A	5.0- 6.5	7.6 on 6.0	23.0	17.8	10.6	869	10.0	1047	44
2170333	185/65R15	88H	-	BSW	500 A/A	5.0- 6.5	7.4 on 5.5	24.4	17.5	11.2	819	10.0	1235	51
2204903	P185/65R15	86T	-	BSW	500 A/A	5.0- 6.5	7.4 on 5.5	24.4	17.4	11.2	819	10.0	1168	44
2170253	195/55R15	85H	-	BSW	500 A/A	5.5- 7.0	7.9 on 6.0	23.4	17.5	10.8	854	10.0	1135	51
2170263	195/60R15	88H	-	BSW	500 A/A	5.5- 7.0	7.9 on 6.0	24.2	17.6	11.1	826	10.0	1235	51
2253362	195/65R15	91T	-	BSW	480 A/A	5.5- 7.0	7.9 on 6.0	25.0	17.0	11.4	800	9.5	1356	44
2170233	205/60R15	91H	-	BSW	500 A/A	5.5- 7.5	8.2 on 6.0	24.7	19.3	11.3	809	10.0	1356	51
2170243	205/65R15	94H	-	BSW	500 A/A	5.5- 7.5	8.2 on 6.0	25.5	20.3	11.6	784	10.0	1477	51
2254422	205/55R16	91H	-	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	24.9	18.1	11.5	803	10.0	1356	44
2270282	205/55R16	91H	-	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	24.9	18.1	11.5	810	10.0	1356	44
2188063	215/55R16	97V	XL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	25.3	23.9	11.6	790	10.0	1609	50
2170173	215/60R16	95H	-	BSW	500 A/A	6.0- 7.5	8.7 on 6.5	26.1	22.1	12.0	766	10.0	1521	51
2176673	215/65R16	98H	-	BSW	500 A/A	6.0- 7.5	8.7 on 6.5	27.0	24.1	12.3	740	10.0	1653	44
2188073	225/55R16	99V	XL	BSW	500 A/A	6.0- 8.0	9.2 on 7.0	25.7	24.9	11.8	778	10.0	1709	50
2170153	225/60R16	98H	-	BSW	500 A/A	6.0- 8.0	9.0 on 6.5	26.6	25.9	12.1	751	10.0	1653	51
2176683	225/65R16	100T	-	BSW	500 A/A	6.0- 8.0	9.0 on 6.5	27.5	27.3	12.5	727	10.0	1764	44
2199092	235/55R16	98V	-	BSW	500 A/A	6.5- 8.5	9.6 on 7.5	26.1	26.6	12.0	766	10.0	1653	51
2177333	235/60R16	100H	-	BSW	500 A/A	6.5- 8.5	9.4 on 7.0	27.1	27.0	12.3	738	10.0	1764	44
2170123	205/50R17	93V	XL	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	25.1	22.6	11.7	796	10.0	1433	50
2207323	205/55R17	95V	XL	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	25.9	22.8	12.0	772	10.0	1521	50
2204203	215/45R17	87H	-	BSW	500 A/A	7.0- 8.0	8.4 on 7.0	24.6	20.2	11.5	813	10.0	1201	44
2170103	215/50R17	95V	XL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	25.5	26.0	11.8	784	10.0	1521	50
2175593	215/55R17	94V	-	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	26.3	23.1	12.1	760	10.0	1477	44
2170063	225/45R17	94V	XL	BSW	500 A/A	7.0- 8.5	8.9 on 7.5	25.0	23.2	11.6	800	10.0	1477	50
2170073	225/50R17	98V	XL	BSW	500 A/A	6.0- 8.0	9.2 on 7.0	25.9	26.1	12.0	772	10.0	1653	50
2176213	225/55R17	97V	-	BSW	500 A/A	6.0- 8.0	9.2 on 7.0	26.8	25.5	12.3	746	10.5	1609	44

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

SOLUS TA31

TREAD CODE TA31

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2176703	225/60R17	99H	-	BSW	500 A/A	6.0- 8.0	9.0 on 6.5	27.6	26.6	12.6	724	10.0	1709	44
2170053	235/55R17	103V	XL	BSW	500 A/A	6.5- 8.5	9.6 on 7.5	27.2	29.8	12.5	735	10.0	1929	50
2161953	235/65R17	104H	-	BSW	500 A/A	6.5- 8.5	9.4 on 7.0	29.1	30.7	13.2	687	10.0	1984	51
2170043	245/45R17	99V	XL	BSW	500 A/A	7.5- 9.0	9.6 on 8.0	25.7	27.5	11.9	778	10.0	1709	50
2173173	225/40R18	88V	-	BSW	500 A/A	7.5- 9.0	9.1 on 8.0	25.1	23.7	11.8	796	10.0	1235	44
2170023	225/45R18	95V	XL	BSW	500 A/A	7.0- 8.5	8.9 on 7.5	25.9	25.1	12.1	772	10.0	1521	50
2161673	235/45R18	94V	-	BSW	500 A/A	7.5- 9.0	9.3 on 8.0	26.3	26.5	12.3	760	10.0	1477	44
2172003	235/45R18	94V	-	BSW	480 A/A	7.5- 9.0	9.3 on 8.0	26.3	27.1	12.3	760	10.0	1477	51
2170003	235/50R18	101V	XL	BSW	500 A/A	6.5- 8.5	9.6 on 7.5	27.3	28.3	12.6	732	10.0	1819	50
2161943	245/50R20	102V	-	BSW	500 A/A	6.5- 8.5	9.6 on 7.5	29.8	32.1	13.4	671	10.0	1874	51

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

SOLUS TA11

ALL-SEASON COMFORT, LONG-LASTING VALUE

Class: Touring All-Season

An exceptionally comfortable all-season performance tire, with a tread optimized for wet traction and a compound engineered to last. The rounded shoulder design keeps continual contact with the road for excellent cornering and tight, responsive steering on the highway.

BENEFITS & TECHNOLOGY

- Engineered for class-leading comfort and shock absorption with Kumho's exclusive ESCOT casing

- Excellent fuel economy and a long tread life — the result of a dual silicone compound engineered to cool quickly. It runs colder, lasts longer, and improves fuel efficiency

- Exceptional grip and stability in heavy rain and snow. Four, deep center grooves channel water away quickly

- Engineered for traction on ice, with tiny winter sipes creating thousands of small gripping edges

Tread Classification: Asymmetric | UTQG 700 A/B | T RATED

75K MILEAGE WARRANTY

ROAD HAZARD PROTECTION
KUMHO TIRE

PERFORMANCE RATINGS

DRY	7
WET	8
NOISE	8.5
WEAR	10
COMFORT	9
SNOW	8
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Ford Focus; Honda Accord; Hyundai Sonata; Lincoln Town Car; Mazda 6; Toyota Camry, Corolla, Sienna

COMPARABLE COMPETITOR PRODUCTS

Goodyear Assurance A/S; Michelin Defender T + H; Pirelli P4 Four Seasons; General Altimax RT43

Available tire sizes on next page.

SOLUS TA11

TREAD CODE TA11

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2182463	155/80R13	79T	-	BSW	700 A/B	4.0- 5.0	6.2 on 4.5	22.8	14.1	10.3	877	10.0	963	44
2182503	175/70R13	82T	-	BSW	700 A/B	4.5- 6.0	7.0 on 5.0	22.7	14.6	10.3	881	10.5	1047	44
2182583	185/70R13	86T	-	BSW	700 A/B	4.5- 6.0	7.4 on 5.5	23.2	15.9	10.5	862	11.0	1168	44
2182483	175/65R14	82T	-	BSW	700 A/B	5.0- 6.0	7.0 on 5.0	23.0	15.6	10.5	869	10.5	1047	44
2182543	185/65R14	86T	-	BSW	700 A/B	5.0- 6.5	7.4 on 5.5	23.5	17.1	10.7	851	10.5	1168	44
2182603	185/70R14	88T	-	BSW	700 A/B	4.5- 6.0	7.4 on 5.5	24.3	17.2	11.0	823	11.0	1235	44
2182663	195/70R14	91T	-	BSW	700 A/B	5.0- 6.5	7.9 on 6.0	24.8	18.6	11.2	806	11.0	1356	44
2182683	195/75R14	92T	-	BSW	700 A/B	5.0- 6.5	7.7 on 5.5	25.5	20.9	11.5	784	11.0	1389	44
2182803	205/75R14	95T	-	BSW	700 A/B	5.0- 7.0	8.0 on 5.5	26.1	23.0	11.7	766	11.0	1521	44
2182963	215/70R14	96T	-	BSW	700 A/B	5.5- 7.0	8.7 on 6.5	25.9	23.3	11.6	772	11.0	1565	44
2182523	185/60R15	84T	-	BSW	700 A/B	5.0- 6.5	7.4 on 5.5	23.7	17.5	10.9	843	10.5	1102	44
2182563	185/65R15	88T	-	BSW	700 A/B	5.0- 6.5	7.4 on 5.5	24.4	18.0	11.2	819	10.5	1235	44
2182623	195/60R15	88T	-	BSW	700 A/B	5.5- 7.0	7.9 on 6.0	24.2	18.5	11.1	826	10.5	1235	44
2182643	195/65R15	91T	-	BSW	700 A/B	5.5- 7.0	7.9 on 6.0	25.0	18.7	11.4	800	10.5	1356	44
2182723	205/60R15	91T	-	BSW	700 A/B	5.5- 7.5	8.2 on 6.0	24.7	20.2	11.3	809	11.0	1356	44
2182763	205/65R15	94T	-	BSW	700 A/B	5.5- 7.5	8.2 on 6.0	25.5	20.7	11.6	784	11.0	1477	44
2182783	205/70R15	96T	-	BSW	700 A/B	5.0- 7.0	8.2 on 6.0	26.3	23.8	11.9	760	11.0	1565	44
2182823	205/75R15	97T	-	BSW	700 A/B	5.0- 7.0	8.0 on 5.5	27.1	24.6	12.2	738	11.0	1609	44
2182843	215/60R15	94T	-	BSW	700 A/B	6.0- 7.5	8.7 on 6.5	25.2	22.7	11.5	793	11.0	1477	44
2182903	215/65R15	96T	-	BSW	700 A/B	6.0- 7.5	8.8 on 6.5	26.0	24.1	11.8	769	11.0	1565	44
2182983	215/70R15	98T	-	BSW	700 A/B	5.5- 7.0	8.7 on 6.5	26.9	25.6	12.1	743	11.0	1653	44
2183023	215/75R15	100T	-	BSW	700 A/B	5.5- 7.0	8.5 on 6.0	27.7	26.5	12.4	722	11.0	1764	44
2183123	225/70R15	100T	-	BSW	700 A/B	6.0- 7.5	9.0 on 6.5	27.4	28.3	12.4	729	11.0	1764	44
2183163	225/75R15	102T	-	BSW	700 A/B	6.0- 7.5	8.8 on 6.0	28.3	27.4	12.7	706	11.0	1874	44
2183283	235/70R15	103T	-	BSW	700 A/B	6.0- 8.0	9.4 on 7.0	28.0	28.6	12.6	714	11.0	1929	44
2183323	235/75R15	105T	-	BSW	700 A/B	6.0- 8.0	9.3 on 6.5	28.9	30.5	12.9	692	11.0	2039	44
2182703	205/55R16	91T	-	BSW	700 A/B	5.5- 7.5	8.4 on 6.5	24.9	19.8	11.5	803	10.5	1356	44
2182743	205/60R16	92T	-	BSW	700 A/B	5.5- 7.5	8.2 on 6.0	25.7	21.0	11.8	778	11.0	1389	44
2179753	215/60R16	95T	-	BSW	700 A/B	6.0- 7.5	8.7 on 6.5	26.1	24.2	12.0	766	11.0	1521	44
2182923	215/65R16	98T	-	BSW	700 A/B	6.0- 7.5	8.7 on 6.5	27.0	26.1	12.3	740	11.0	1653	44
2183003	215/70R16	100T	-	BSW	700 A/B	5.5- 7.0	8.7 on 6.5	27.9	26.5	12.6	716	11.0	1764	44
2183043	225/60R16	98T	-	BSW	700 A/B	6.0- 8.0	9.0 on 6.5	26.6	27.0	12.1	751	11.0	1653	44

BSW- Black Sidewall

SOLUS TA11

TREAD CODE TA11

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2183143-	225/70R16	103T	-	BSW	700 A/B	6.0- 7.5	9.0 on 6.5	28.4	27.8	12.8	704	11.0	1929	44
2183183-	235/60R16	100T	-	BSW	700 A/B	6.5- 8.5	9.4 on 7.0	27.1	27.7	12.3	738	11.0	1764	44
2183223-	235/65R16	103T	-	BSW	700 A/B	6.5- 8.5	9.4 on 7.0	28.0	29.3	12.7	714	11.0	1929	44
2183303-	235/70R16	106T	-	BSW	700 A/B	6.0- 8.0	9.4 on 7.0	29.0	30.5	13.1	689	11.0	2094	44
2182883-	215/60R17	96T	-	BSW	700 A/B	6.0- 7.5	8.7 on 6.5	27.2	25.9	12.5	735	11.0	1565	44
2182943-	215/65R17	99T	-	BSW	700 A/B	6.0- 7.5	8.7 on 6.5	28.0	27.9	12.8	714	11.0	1709	44
2183063-	225/60R17	99T	-	BSW	700 A/B	6.0- 8.0	9.0 on 6.5	27.6	27.2	12.6	724	11.0	1709	44
2183103-	225/65R17	102T	-	BSW	700 A/B	6.0- 8.0	9.0 on 6.5	28.5	29.2	13.0	701	11.0	1874	44
2183203-	235/60R17	102T	-	BSW	700 A/B	6.5- 8.5	9.4 on 7.0	28.1	29.3	12.8	711	11.0	1874	44
2183243-	235/65R17	104T	-	BSW	700 A/B	6.5- 8.5	9.4 on 7.0	29.1	30.1	13.2	687	11.0	1984	44
2183263-	235/65R18	106T	-	BSW	700 A/B	6.5- 8.5	9.4 on 7.0	30.0	33.4	13.7	666	11.0	2094	44

BSW- Black Sidewall

SOLUS *TA51a*

ALL-SEASON QUIET AND COMFORTABLE

Class: Grand Touring All-Season

Designed for the drivers of coupes, sedans, crossovers, and SUVs, the Solus TA51a provides a quiet, comfortable experience in addition to confident grip and responsive handling in dry, wet, and wintry conditions.

BENEFITS & TECHNOLOGY

- Engineered with 3D interlocking sipes improve stability by increasing tread block rigidity

- Excellent Noise Canceller technology that disrupts air pumping resonance to reduce noise generated in main channel grooves

- Exceptional improved noise performance through use of 3D Chamfer on shoulder blocks

- Engineered with 4 wide linear grooves improve hydroplaning resistance by maximizing water drainage

SATISFACTION GUARANTEED
30 DAYS WARRANTY

75K MILEAGE WARRANTY
T SPEED

65K MILEAGE WARRANTY
H OR HIGHER

ROAD HAZARD PROTECTION
KUMHO TIRE

Tread Classification: Mid Asymmetric | UTQG 640 A/A | T, H, & V RATED

PERFORMANCE RATINGS

Category	Rating
DRY	8
WET	9
NOISE	10
WEAR	9
COMFORT	8
SNOW	8
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Ford Focus; Honda Accord; Hyundai Sonata; Mazda 6; Toyota Camry, Corolla, Sienna

COMPARABLE COMPETITOR PRODUCTS

Goodyear Assurance A/S; Michelin Defender T + H; Pirelli P4 Four Seasons; General Altimax RT43

Available tire sizes on next page.

SOLUS TA51a

TREAD CODE TA51a

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2285723	155/80R13	79T	-	BSW	640 A/A	4.5- 5.0	6.2 on 4.5	22.8	12.9	10.3	885	10.1	963	51
2285733	175/70R13	82H	-	BSW	640 A/A	5.0- 6.0	7.0 on 5.0	22.7	14.6	10.3	888	10.1	1047	51
2285743	165/65R14	79T	-	BSW	640 A/A	5.0- 6.0	6.7 on 5.0	22.4	14.0	10.3	900	10.1	963	51
2285753	175/65R14	82H	-	BSW	640 A/A	5.0- 6.0	7.0 on 5.0	23.0	14.2	10.5	877	10.1	1047	51
2285763	175/70R14	84H	-	BSW	640 A/A	5.0- 6.0	7.0 on 5.0	23.7	15.5	10.8	851	10.1	1102	51
2285243	185/60R14	82H	-	BSW	640 A/A	5.5- 6.5	7.4 on 5.5	22.8	15.6	10.4	885	10.1	1047	51
2285253	185/65R14	86H	-	BSW	640 A/A	5.5- 6.5	7.4 on 5.5	23.5	15.4	10.7	858	10.1	1168	51
2286053	185/65R14	86T	-	BSW	640 A/A	5.5- 6.5	7.4 on 5.5	23.5	15.9	10.7	858	10.1	1168	51
2285773	185/70R14	88H	-	BSW	640 A/A	5.5- 6.0	7.4 on 5.5	24.3	15.7	11.0	830	10.1	1235	51
2285783	195/70R14	91H	-	BSW	640 A/A	6.0- 6.5	7.9 on 6.0	24.8	18.2	11.2	813	10.1	1356	51
2285793	195/75R14	92T	-	BSW	640 A/A	5.5- 6.5	7.7 on 5.5	25.5	19.2	11.5	791	10.1	1389	51
2285803	205/75R14	95T	-	BSW	640 A/A	5.5- 7.0	8.0 on 5.5	26.1	20.7	11.7	773	10.1	1521	51
2285813	215/70R14	96T	-	BSW	640 A/A	6.5- 7.0	8.7 on 6.5	25.9	21.7	11.6	779	10.1	1565	51
2285263	175/65R15	84H	-	BSW	640 A/A	5.0- 6.0	7.0 on 5.0	24.0	15.4	11.0	840	10.1	1102	51
2285273	185/60R15	84H	-	BSW	640 A/A	5.5- 6.5	7.4 on 5.5	23.7	16.1	10.9	851	10.1	1102	51
2285823	185/60R15	84T	-	BSW	640 A/A	5.5- 6.5	7.4 on 5.5	23.7	16.3	10.9	851	10.1	1102	51
2285833	185/65R15	88T	-	BSW	640 A/A	5.5- 6.5	7.4 on 5.5	24.4	16.7	11.2	827	10.1	1235	51
2285283	185/65R15	88H	-	BSW	640 A/A	5.5- 6.5	7.4 on 5.5	24.4	16.3	11.2	827	10.1	1235	51
2285293	195/60R15	88H	-	BSW	640 A/A	6.0- 7.0	7.9 on 6.0	24.2	16.7	11.1	833	10.1	1235	51
2305753	195/65R15	91T	-	BSW	640 A/A	6.0- 7.0	7.9 on 6.0	25.0	18.2	11.4	807	10.1	1356	51
2285303	195/65R15	91H	-	BSW	640 A/A	6.0- 7.0	7.9 on 6.0	25.0	18.2	11.4	807	10.1	1356	51
2285313	205/60R15	91H	-	BSW	640 A/A	6.0- 7.5	8.2 on 6.0	24.7	18.4	11.3	817	10.1	1356	51
2285853	205/65R15	94T	-	BSW	640 A/A	6.0- 7.5	8.2 on 6.0	25.5	18.6	11.6	791	10.1	1477	51
2285323	205/65R15	94H	-	BSW	640 A/A	6.0- 7.5	8.2 on 6.0	25.5	20.2	11.6	791	10.1	1477	51
2285863	205/70R15	96T	-	BSW	640 A/A	6.0- 7.0	8.2 on 6.0	26.3	21.8	11.9	767	10.1	1565	51
2285873	205/75R15	97T	-	BSW	640 A/A	5.5- 7.0	8.0 on 5.5	27.1	22.7	12.2	744	10.1	1609	51
2285883	215/65R15	96T	-	BSW	640 A/A	6.5- 7.5	8.8 on 6.5	26.0	21.2	11.8	776	10.1	1565	51
2285723	155/80R13	79T	-	BSW	640 A/A	6.5- 7.0	8.7 on 6.5	26.9	22.9	12.1	750	10.1	1653	51
2285733	175/70R13	82H	-	BSW	640 A/A	6.0- 7.0	8.5 on 6.0	27.7	24.0	12.4	728	10.1	1764	51
2285743	165/65R14	79T	-	BSW	640 A/A	6.5- 7.5	9.0 on 6.5	27.4	23.4	12.4	736	10.1	1764	51
2285753	175/65R14	82H	-	BSW	640 A/A	6.0- 7.5	8.8 on 6.0	28.3	25.2	12.7	713	10.1	1874	51
2285763	175/70R14	84H	-	BSW	640 A/A	7.0- 8.0	9.4 on 7.0	28.0	26.0	12.6	720	10.1	1929	51

BSW - Black Sidewall

SOLUS TA51a

TREAD CODE TA51a

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2285943	235/75R15	105T	-	BSW	640 A/A	6.5- 8.0	9.3 on 6.5	28.9	26.5	12.9	698	10.1	2039	51
2285333	195/50R16	84V	-	BSW	640 A/A	6.0- 7.0	7.9 on 6.0	23.7	18.0	11.0	851	10.1	1102	51
2330492	205/55R16	91T	-	BSW	640 A/A	6.5- 7.5	8.4 on 6.5	24.9	18.3	11.5	810	10.1	1356	51
2325822	205/55R16	91H	-	BSW	640 A/A	6.5- 7.5	8.4 on 6.5	24.9	18.6	11.5	810	10.1	1356	51
2285963	205/60R16	92T	-	BSW	640 A/A	6.0- 7.5	8.2 on 6.0	25.7	19.8	11.8	785	10.1	1389	51
2285353	205/60R16	92H	-	BSW	640 A/A	6.0- 7.5	8.2 on 6.0	25.7	19.8	11.8	785	10.1	1389	51
2325832	205/65R16	95H	-	BSW	640 A/A	6.0- 7.5	8.2 on 6.0	26.5	19.7	12.1	761	10.1	1521	51
2330472	205/65R16	95T	-	BSW	640 A/A	6.0- 7.5	8.2 on 6.0	26.5	19.4	12.1	761	10.1	1521	51
2285373	205/70R16	97H	-	BSW	640 A/A	5.0- 7.0	8.2 on 6.0	27.3	23.0	12.4	739	10.1	1609	51
2285383	215/55R16	97H	XL	BSW	640 A/A	7.0- 7.5	8.9 on 7.0	25.3	21.3	11.6	797	10.1	1609	50
2330482	215/60R16	95T	-	BSW	640 A/A	6.5- 7.5	8.7 on 6.5	26.1	19.7	12.0	773	10.1	1521	51
2325842	215/60R16	95H	-	BSW	640 A/A	6.5- 7.5	8.7 on 6.5	26.1	20.0	12.0	773	10.1	1521	51
2285403	215/65R16	98H	-	BSW	640 A/A	6.5- 7.5	8.7 on 6.5	27.0	23.7	12.3	747	10.1	1653	51
2285993	215/65R16	98T	-	BSW	640 A/A	6.5- 7.5	8.7 on 6.5	27.0	24.1	12.3	747	10.1	1653	51
2285413	225/55R16	95V	-	BSW	640 A/A	7.0- 8.0	9.2 on 7.0	25.7	21.9	11.8	785	10.1	1521	51
2286003	225/60R16	98T	-	BSW	640 A/A	6.5- 8.0	9.0 on 6.5	26.6	24.1	12.1	758	10.1	1653	51
2285423	225/60R16	98H	-	BSW	640 A/A	6.5- 8.0	9.0 on 6.5	26.6	24.1	12.1	758	10.1	1653	51
2285443	235/60R16	100H	-	BSW	640 A/A	7.0- 8.5	9.4 on 7.0	27.1	25.6	12.3	744	10.1	1764	51
2285433	225/65R16	100H	-	BSW	640 A/A	6.5- 8.0	9.0 on 6.5	27.5	25.3	12.5	733	10.1	1764	51
2286013	235/65R16	103T	-	BSW	640 A/A	7.0- 8.5	9.4 on 7.0	28.0	26.4	12.7	720	10.1	1929	51
2285453	205/50R17	93V	XL	BSW	640 A/A	6.5- 7.5	8.4 on 6.5	25.1	20.6	11.7	804	10.1	1433	50
2285463	215/45R17	87V	-	BSW	640 A/A	7.0- 8.0	8.4 on 7.0	24.6	21.2	11.5	820	10.1	1201	51
2285473	215/50R17	95V	XL	BSW	640 A/A	7.0- 7.5	8.9 on 7.0	25.5	22.4	11.8	791	10.1	1521	50
2285492	215/55R17	94V	-	BSW	640 A/A	7.0- 7.5	8.9 on 7.0	26.3	24.3	12.1	767	10.1	1477	51
2285482	215/55R17	94H	-	BSW	640 A/A	7.0- 7.5	8.9 on 7.0	26.3	21.9	12.1	767	10.1	1477	51
2286023	215/60R17	96T	-	BSW	640 A/A	6.5- 7.5	8.7 on 6.5	27.2	22.8	12.5	741	10.1	1565	51
2286033	215/65R17	99T	-	BSW	640 A/A	6.5- 7.5	8.7 on 6.5	28.0	25.1	12.8	720	10.1	1709	51
2285503	225/45R17	94V	XL	BSW	640 A/A	7.5- 8.5	8.9 on 7.5	25.0	20.9	11.6	807	10.1	1477	50
2285513	225/50R17	98V	XL	BSW	640 A/A	7.0- 8.0	9.2 on 7.0	25.9	24.8	12.0	779	10.1	1653	50
2285533	225/55R17	97V	-	BSW	640 A/A	7.0- 8.0	9.2 on 7.0	26.8	22.6	12.3	753	10.1	1609	51
2285523	225/55R17	97H	-	BSW	640 A/A	7.0- 8.0	9.2 on 7.0	26.8	22.6	12.3	753	10.1	1609	51
2285543	225/60R17	99H	-	BSW	640 A/A	6.5- 8.0	9.0 on 6.5	27.6	24.7	12.6	731	10.1	1709	51

BSW- Black Sidewall

TREAD CODE TA51a

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2286043	225/60R17	99T	-	BSW	640 A/A	6.5- 8.0	9.0 on 6.5	27.6	24.7	12.6	731	10.1	1709	51
2285553	225/65R17	102H	-	BSW	640 A/A	6.5- 8.0	9.0 on 6.5	28.5	26.2	13.0	708	10.1	1874	51
2285563	235/45R17	94V	-	BSW	640 A/A	8.0- 9.0	9.3 on 8.0	25.4	23.0	11.8	794	10.1	1477	51
2285573	235/55R17	99H	-	BSW	640 A/A	7.5- 8.5	9.6 on 7.5	27.2	26.2	12.5	741	10.1	1709	51
2285583	235/60R17	102H	-	BSW	640 A/A	7.0- 8.5	9.4 on 7.0	28.1	26.3	12.8	718	10.1	1874	51
2285593	235/65R17	104H	-	BSW	640 A/A	7.0- 8.5	9.4 on 7.0	29.1	27.7	13.2	693	10.1	1984	51
2285603	215/55R18	95H	-	BSW	640 A/A	7.0- 7.5	8.9 on 7.0	27.3	24.4	12.6	739	10.1	1521	51
2285613	225/40R18	92V	XL	BSW	640 A/A	8.0- 9.0	9.1 on 8.0	25.1	21.7	11.8	804	10.1	1389	50
2285623	225/45R18	95V	XL	BSW	640 A/A	7.5- 8.5	8.9 on 7.5	25.9	23.7	12.1	779	10.1	1521	50
2285633	225/50R18	95V	-	BSW	640 A/A	7.0- 8.0	9.2 on 7.0	26.9	25.2	12.5	750	10.1	1521	51
2285643	225/55R18	98H	-	BSW	640 A/A	7.0- 8.0	9.2 on 7.0	27.8	26.4	12.8	725	10.1	1653	51
2285653	225/60R18	100H	-	BSW	640 A/A	6.5- 8.0	9.0 on 6.5	28.6	26.1	13.1	705	10.1	1764	51
2285663	235/45R18	98V	XL	BSW	640 A/A	8.0- 9.0	9.3 on 8.0	26.3	25.3	12.3	767	10.1	1653	50
2285673	235/50R18	97V	-	BSW	640 A/A	7.5- 8.5	9.6 on 7.5	27.3	27.1	12.6	739	10.1	1609	51
2285683	235/55R18	100V	-	BSW	640 A/A	7.5- 8.5	9.6 on 7.5	28.1	27.5	13.0	718	10.1	1764	51
2285693	235/60R18	103H	-	BSW	640 A/A	7.0.- 8.5	9.4 on 7.0	29.1	28.2	13.3	693	10.1	1929	51
2285703	245/45R18	100V	XL	BSW	640 A/A	8.0- 9.0	9.6 on 8.0	26.7	26.6	12.4	755	10.1	1764	50
2285713	235/40R19	96V	XL	BSW	640 A/A	8.0- 9.5	9.5 on 8.5	26.4	25.4	12.1	764	10.1	1565	50

BSW- Black Sidewall

TRUCK, SUV & CROSSOVER

Kumho Tire's truck, SUV and crossover tires bring you the best of both on- and off-road performance. They deliver improved off-road and snow traction along with exceptional highway tread wear, braking and handling performance without the sacrifice of ride comfort on highways and city streets.

RECREATIONAL

Road Venture MT
Pg. 62

Road Venture MT71
Pg. 58

Ecsta STX KL12
Pg. 41

Road Venture AT52
Pg. 53

Road Venture AT51
Pg. 56

Road Venture MT51
Pg. 60

Crugen HP71
Pg. 43

Crugen Premium KL33
Pg. 46

ON-ROAD

OFF-ROAD

Crugen HT51
Pg. 48

Crugen HT51c
Pg. 51

COMMERCIAL

ECSTA STX

BIG PERFORMANCE, BOLD ATTITUDE FOR PICK-UPS, SUVS AND CROSSOVERS

Class: Street/Sport Truck All-Season

A member of the Ecsta performance family of tires, the Ecsta STX brings all-condition performance to a growing category of performance utility vehicles. The directional tread, attractive sidewall design and low-profile stance not only perform flawlessly but also retain Kumho Tire's world-class engineering and construction.

BENEFITS & TECHNOLOGY

- Quiet ride and reduced interior noise levels, optimized by variable pitch tread blocks

- Excellent wet traction, reduced hydroplaning, provided by wide groove water evacuating tread design

- Greater steering response and large road contact patch, the benefits of jointless cap construction

- Guards against expensive wheel damage with rim protectors in lower sidewall

Tread Classification: Directional | UTQG 420 A/A | V & W RATED

PERFORMANCE RATINGS

DRY	9
WET	10
NOISE	9
WEAR	8
COMFORT	8
SNOW	3
OFF-ROAD	3

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

BMW X5; Cadillac Escalade; Chevrolet 1500 Pickup, Tahoe; Chrysler Pacifica; Dodge Ram; Ford F150; GMC Envoy, Yukon; Mercedes ML430; Toyota Tacoma; Volkswagen Touareg

COMPARABLE COMPETITOR PRODUCTS

Goodyear Fortera SL Edition; Pirelli Scorpion Zero All Season Plus; Toyo Proxes STIII; Yokohama Parada Spec-X

Available tire sizes on next page.

ECSTA STX

TREAD CODE KL12

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2101383	275/55R18	114V	XL	BSW	420 A/A	7.5- 9.5	11.2 on 8.5	29.8	36.7	18.2	671	11.0	2601	50
1635713	285/60R18	116V	-	BSW	420 A/A	8.0- 10.0	11.5 on 8.5	31.5	41.5	14.2	634	11.0	2756	51
1851913	275/45R20	106W	-	BSW	420 A/A	8.5- 10.5	10.7 on 9.0	29.8	36.2	13.8	671	11.5	2094	51
1832813	275/55R20	117V	XL	BSW	420 A/A	7.5- 9.5	11.2 on 8.5	31.9	41.3	14.6	626	11.5	2830	50
1648913	305/50R20	120V	-	BSW	420 A/A	8.5- 11.0	12.4 on 9.5	32.0	47.0	14.7	625	11.5	3086	50
1851713	265/35R22	102W	XL	BSW	420 A/A	9.0- 10.5	10.7 on 9.5	29.3	33.2	13.9	682	11.5	1874	50
2101303	265/40R22	106V	XL	BSW	420 A/A	9.0- 10.5	10.7 on 9.5	30.4	34.7	14.3	657	11.0	2094	50
1649113	305/45R22	118V	-	BSW	420 A/A	9.5- 10.0	11.9 on 10.0	32.8	46.6	15.2	889	11.5	2910	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

CRUGEN HP71

LUXURY, POISE, CONFIDENCE, AND ALL-SEASON PERFORMANCE

Class: CUV/SUV All-Season

The Crugen HP71 grants a top-tier luxurious feel and quiet ride. However, it is the level of safety, performance, and longevity that makes the Crugen HP71 an ideal match for today's CUVs and SUVs. With Kumho's state of the art technology, no matter the season or the weather you will feel confident on the road.

BENEFITS & TECHNOLOGY

- Full depth sipes and lateral voids remove the slush from under the tire to create long-lasting winter traction

- Wide circumferential grooves and micro-serration in tread blocks help to evacuate water, improve wet weather traction, and prevent hydroplaning

- A strong center rib and improved shoulder blocks help to provide a more evenly worn and longer lasting tire while also providing quick handling and performance

- Kumho's Variable Pitch Technology and tread pattern provide a quiet and comfortable ride that is a rival to any top-tier on the market today

SATISFACTION GUARANTEED **30 DAYS** WARRANTY

65K MILEAGE WARRANTY

ROAD HAZARD PROTECTION KUMHO TIRE

Tread Classification: Symmetric | UTQG 640 A/A | H & V Rated

PERFORMANCE RATINGS

	Rating
DRY	8.5
WET	9
NOISE	9.5
WEAR	9.5
COMFORT	9.5
SNOW	8
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Audi Q7, Cadillac Escalade, Dodge Durango, Ford Escape, Ford Explorer, Honda CR-V, Hyundai Sante Fe, Jeep Grand Cherokee, Kia Sorento, Mazda CX-3, Toyota Rav4, Volkswagen Atlas

COMPARABLE COMPETITOR PRODUCTS

Bridgestone Ecopia H/L 422 Plus, Continental LX20 with EcoPlus Technology, Falken Ziex CT60 A/S, Goodyear Assurance CS Fuel Max, Hankook Dynapro HP2, Michelin Premier LTX

Available tire sizes on next page.

CRUGEN HP71

TREAD CODE HP71

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2248213	215/70R16	100H	-	BSW	640 A/A	5.5- 7.0	8.7 on 6.5	27.9	25.9	12.6	716	11.0	1764	51
2248253	225/70R16	103H	-	BSW	640 A/A	6.0- 7.5	9.0 on 6.5	28.4	27.1	12.8	704	11.0	1929	51
2230133	235/70R16	109H	XL	BSW	640 A/A	6.0- 8.0	9.4 on 7.0	29.0	30.2	13.1	689	11.0	2271	50
2231143	245/70R16	107H	-	BSW	640 A/A	6.5- 8.0	9.8 on 7.0	29.5	31.8	13.3	677	11.0	2149	51
2230043	255/65R16	109V	-	BSW	640 A/A	7.0- 9.0	10.2 on 7.5	29.1	31.8	13.1	693	11.5	2271	51
2230253	225/60R17	99V	-	BSW	640 A/A	6.0- 8.0	9.0 on 6.5	27.6	26.7	12.6	724	11.0	1709	51
2230233	225/65R17	102V	-	BSW	640 A/A	6.0- 8.0	9.0 on 6.5	28.5	28.3	13.0	701	11.0	1874	51
2230203	235/55R17	103V	XL	BSW	640 A/A	6.5- 8.5	9.6 on 7.5	27.2	29.1	12.5	735	11.0	1929	50
2230163	235/60R17	102V	-	BSW	640 A/A	6.5- 8.5	9.4 on 7.0	28.1	28.4	12.8	711	11.0	1874	51
2230143	235/65R17	104V	-	BSW	640 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.8	13.2	687	11.0	1984	51
2230093	245/65R17	107V	-	BSW	640 A/A	7.0- 8.5	9.8 on 7.0	29.5	32.3	13.4	677	11.0	2149	51
2231133	265/60R17	108V	-	BSW	640 A/A	7.5- 9.5	10.7 on 8.0	29.5	34.6	13.4	677	11.0	2205	51
2230273	215/55R18	95V	-	BSW	640 A/A	6.0- 7.5	8.9 on 7.0	27.3	26.0	12.6	739	11.5	1521	51
2230263	225/55R18	98V	-	BSW	640 A/A	6.0- 8.0	9.2 on 7.0	27.8	28.1	12.8	719	11.0	1653	51
2230243	225/60R18	104V	XL	BSW	640 A/A	6.0- 8.0	9.0 on 6.5	28.6	29.5	13.1	699	11.0	1984	50
2230223	235/50R18	97V	-	BSW	640 A/A	6.5- 8.5	9.6 on 7.5	27.3	28.8	12.6	739	11.5	1609	51
2230193	235/55R18	104V	XL	BSW	640 A/A	6.5- 8.5	9.6 on 7.5	28.1	30.5	13.0	711	11.5	1984	50
2227843	235/60R18	107V	XL	BSW	640 A/A	6.5- 8.5	9.4 on 7.0	29.1	31.5	13.3	687	11.0	2149	50
2268173	235/65R18	110V	XL	BSW	640 A/A	6.5- 8.5	9.4 on 7.0	30.0	32.8	13.7	672	11.0	2337	50
2230063	255/55R18	109V	XL	BSW	640 A/A	7.0- 9.0	10.4 on 8.0	29.0	34.4	13.3	689	11.0	2271	50
2228113	265/60R18	110V	-	BSW	640 A/A	7.5- 9.5	10.7 on 8.0	30.5	37.4	13.9	655	11.0	2337	51
2267843	225/55R19	99V	-	BSW	640 A/A	6.0- 8.0	9.2 on 7.0	28.8	29.5	13.3	694	11.0	1709	51
2248293	235/45R19	95H	-	BSW	640 A/A	7.5- 9.0	9.3 on 8.0	27.4	27.9	12.8	729	10.5	1521	51
2230213	235/50R19	103V	XL	BSW	640 A/A	6.5- 8.5	9.6 on 7.5	28.3	30.9	13.1	706	11.0	1929	50
2247363	245/45R19	98H	-	BSW	640 A/A	7.5- 9.0	9.6 on 8.0	27.7	30.4	12.9	722	11.0	1653	51
2248283	245/55R19	103H	-	BSW	640 A/A	7.0- 8.5	10.0 on 7.5	29.6	33.1	13.7	675	11.0	1929	51
2227833	255/50R19	107V	XL	BSW	640 A/A	7.0- 9.0	10.4 on 8.0	29.1	34.2	13.4	687	11.0	2149	50
2248263	255/55R19	111V	XL	BSW	640 A/A	7.0- 9.0	10.4 on 8.0	30.0	36.6	13.8	666	11.0	2403	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

CRUGEN HP71

TREAD CODE HP71

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2231103	255/60R19	109H	-	BSW	640 A/A	7.0- 9.0	10.2 on 7.5	31.1	37.0	14.2	643	11.0	2271	51
2248273	275/55R19	111H	-	BSW	640 A/A	7.5- 9.5	11.2 on 8.5	30.9	38.0	14.1	647	11.0	2403	51
2248233	235/55R20	102H	-	BSW	640 A/A	6.5- 8.5	9.6 on 7.5	30.2	32.6	14.0	662	11.0	1874	51
2248193	245/50R20	102V	-	BSW	640 A/A	7.0- 8.5	10.0 on 7.5	29.7	32.4	13.8	673	11.0	1874	51
2263873	245/60R20	107H	-	BSW	640 A/A	7.0- 8.5	9.8 on 7.0	31.6	35.7	14.5	638	11.0	2149	51
2263853	255/45R20	101H	-	BSW	640 A/A	8.0- 9.5	10.0 on 8.5	29.1	31.9	13.5	693	10.5	1819	51
2230073	255/50R20	109V	XL	BSW	640 A/A	7.0- 9.0	10.4 on 8.0	30.1	36.5	13.9	664	11.0	2271	50
2248223	255/55R20	110H	XL	BSW	640 A/A	7.0- 9.0	10.4 on 8.0	31.0	38.2	14.3	645	11.0	2337	50
2263803	265/45R20	108W	XL	BSW	640 A/A	8.5- 10.0	10.5 on 9.0	29.4	34.2	13.7	686	10.5	2205	50
2230023	265/50R20	111V	XL	BSW	640 A/A	7.5- 9.5	10.9 on 8.5	30.5	37.9	14.1	655	11.0	2403	50
2263863	275/40R20	106W	XL	BSW	640 A/A	9.0- 11.0	10.9 on 9.5	28.7	34.0	13.4	703	10.5	2094	50
2231113	275/45R20	110V	XL	BSW	640 A/A	8.5- 10.5	10.7 on 9.0	29.8	36.7	13.8	671	10.5	2337	50
2231173	275/50R20	109H	-	BSW	640 A/A	7.5- 9.5	11.2 on 8.5	30.9	38.4	14.2	647	11.0	2271	51
2231093	275/55R20	113H	-	BSW	640 A/A	7.5- 9.5	11.2 on 8.5	31.9	39.9	14.6	626	11.0	2535	51
2248243	275/60R20	115H	-	BSW	640 A/A	7.5- 9.5	11.7 on 8.0	33.0	41.7	15.1	606	11.0	2679	51
2231153	285/50R20	116V	XL	BSW	640 A/A	8.0- 10.0	11.7 on 9.0	31.3	41.6	14.4	638	11.0	2756	50
2263793	265/35R22	102W	XL	BSW	640 A/A	9.0- 10.5	10.7 on 9.5	29.3	34.0	13.9	688	10.5	1874	50
2263823	265/40R22	106W	XL	BSW	640 A/A	9.0- 10.5	10.7 on 9.5	30.4	35.3	14.3	663	10.5	2094	50
2263833	275/45R22	112V	XL	BSW	640 A/A	8.5- 10.5	10.7 on 9.0	31.8	38.7	14.8	634	10.5	2469	50
2263843	275/50R22	111H	-	BSW	640 A/A	7.5- 9.5	11.2 on 8.5	32.9	41.0	15.2	613	10.5	2403	51
2263813	285/35R22	106W	XL	BSW	640 A/A	9.5- 11.0	11.4 on 10.0	29.9	36.2	14.1	675	10.5	2094	50
2248203	285/45R22	114H	XL	BSW	640 A/A	9.0- 10.5	11.2 on 9.5	32.1	41.2	14.9	623	10.5	2601	50
2231163	305/40R22	114V	XL	BSW	640 A/A	10.0- 12.0	12.3 on 11.0	31.6	42.7	14.7	632	10.5	2601	50

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

CRUGEN KL33

PREMIUM ALL-SEASON COMFORT FOR CROSSOVERS & SUVS

Class: CUV/SUV All-Season

The Crugen Premium KL33 brings a new level of luxury to the SUV experience. Quiet comfort, superb handling and excellent all-season performance make it a perfect upgrade for crossovers and light SUVs, and a natural choice for high-end luxury models.

BENEFITS & TECHNOLOGY

• Taut, responsive steering and an exceptional highway feel result from the wide, rounded outside edge of the tire and its continuous contact with the road

• Exceptional all-weather grip and performance from deep microtreads that create hundreds of tiny gripping edges

• A smooth, quiet, comfortable ride due to the unique noise-cancelling tread that reduces road noise and vibration

• Longer tread life and excellent cold traction from an advanced rubber compound engineered to run cooler and stay flexible at lower temperatures

• High-style sidewalls complement the lines of late-model crossovers and SUVs

60K MILEAGE WARRANTY

Tread Classification: Symmetric | UTQG 440 A/A | T, H & V RATED

PERFORMANCE RATINGS

Category	Rating
DRY	8.5
WET	8.5
NOISE	9.5
WEAR	9
COMFORT	9.5
SNOW	7
OFF-ROAD	N/A

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

BMW X3; Ford Edge; Hyundai Santa Fe; Kia Sorento; Lexus RX 350

COMPARABLE COMPETITOR PRODUCTS

Hankook Ventus AS RH07; Michelin Premier LTX; Bridgestone Dueler H/L Alenza Plus; Continental CrossContact LX2 with EcoPlus Technology; Goodyear Assurance CS Fuel Max

Available tire sizes on next page.

CRUGEN KL33

TREAD CODE KL33

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Air (psi)
2167653	215/60R17	100V	XL	BSW	440 A/A	6.0- 7.5	8.7 on 6.5	27.2	28.2	12.5	735	11.0	1764	50
2172063	225/60R17	99H	-	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	27.6	26.7	12.6	724	11.0	1709	44
2172243	235/65R17	104H	-	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.5	13.2	687	11.0	1984	44
2176993	235/65R17	104H	-	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.5	13.2	687	11.5	1984	44
2176223	225/55R18	98H	-	BSW	440 A/A	6.0- 8.0	9.2 on 7.0	27.8	28.2	12.8	719	11.0	1653	51
2176903	225/55R18	98H	-	BSW	440 A/A	6.0- 8.0	9.2 on 7.0	27.8	28.0	12.8	719	11.0	1653	44
2152793	235/60R18	103H	-	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	30.2	13.3	687	11.0	1929	44
2172183	235/60R18	103H	-	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.5	13.3	687	11.0	1929	44
2246442	235/60R18	103H	-	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.5	13.3	687	11.0	1929	44
2147863	235/65R18	110V	XL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	30.0	34.9	13.7	666	11.0	2337	50
2204173	245/60R18	105T	-	BSW	440 A/A	7.0- 8.5	9.8 on 7.0	29.6	31.8	13.5	675	11.0	2039	51
2176643	P255/65R18	109T	-	BSW	440 A/A	7.0- 9.0	10.2 on 7.5	31.1	36.7	14.1	643	11.0	2271	51
2176463	P265/60R18	109H	-	BSW	440 A/A	7.5- 9.5	10.7 on 8.0	30.5	34.0	13.9	655	10.0	2271	51
2176653	P275/65R18	114T	-	BSW	440 A/A	7.0- 9.5	11.0 on 8.0	32.1	43.1	14.5	623	11.0	2601	51
2176893	245/45R19	98H	-	BSW	440 A/A	7.5- 9.0	9.6 on 8.0	27.7	28.1	12.9	722	11.0	1653	44
2246332	255/50R20	105T	-	BSW	440 A/A	7.0- 9.0	10.4 on 8.0	30.1	32.0	13.9	664	10.5	2039	51
2211452	235/55R19	101H	-	BSW	440 A/A	6.5- 8.5	9.6 on 7.5	29.2	29.8	13.5	874	10.5	1819	51

XL- Extra Load/Reinforced Tire | BSW- Black Sidewall

CRUGEN HT51

HIGHWAY ALL-SEASON

Class: Highway Terrain All-Season

Engineered with qualities, features and details to go the distance in hard-working, hard-driving, all-weather conditions, the Crugen HT51 excels in both standard and workload applications. A perfect replacement tire with an extensive line-up of sizes and applications.

BENEFITS & TECHNOLOGY

- Stiff center block design reinforces stability, traction and handling capabilities for improved, straight-line driving performance
- Symmetrical four-channel layout and optimal block shape improves tread life
- 3D sipe applications maximize grip and braking performance which improves stability on snow-covered roads

Tread Classification: Asymmetric | UTQG 720 A/A (P-Metric Only) | Q, R, S, T & H RATED

PERFORMANCE RATINGS

Category	Rating
DRY	8
WET	8
NOISE	9
WEAR	9
COMFORT	9
SNOW	9
OFF-ROAD	5

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Chevrolet Silverado; Suburban; Tahoe; Dodge Ram Series; Ford Explorer; F-Series; Nissan Armada; Frontier; Toyota Tundra

COMPARABLE COMPETITOR PRODUCTS

Michelin Defender LTX; Hankook Dynapro HT RH12; Bridgestone Dueler Alenza Plus H/L; Toyo Open Country H/T

Available tire sizes on next page.

CRUGEN HT51

TREAD CODE HT51

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2234903	215/70R15	98T	-	BSW	720 A/A	5.5- 7.0	8.7 on 6.5	26.9	25.9	12.1	743	12.5	1653	-	51
2234883	225/70R15	100T	-	BSW	720 A/A	6.0- 7.5	9.0 on 6.5	27.4	27.5	12.4	729	12.5	1764	-	51
2205813	P235/70R15	102T	-	BSW	720 A/A	6.0- 8.0	9.4 on 7.0	28.0	28.2	12.6	714	12.0	1896	-	51
2230843	235/75R15	109T	XL	BSW	720 A/A	6.0- 8.0	9.3 on 6.5	28.9	31.5	12.9	692	12.5	2271	-	50
2182133	LT235/75R15	104/101S	C Ply/6-Ply	BSW	-	6.0- 8.0	9.3 on 6.5	28.9	34.3	12.9	692	14.5	1985	1820	50
2234803	255/70R15	108T	-	BSW	720 A/A	6.5- 8.5	10.2 on 7.5	29.1	33.3	13.0	687	12.5	2205	-	51
2234823	215/65R16	102T	XL	BSW	720 A/A	6.0- 7.5	8.7 on 6.5	27.0	26.7	12.3	740	12.5	1874	-	50
2181593	P215/70R16	99T	-	BSW	720 A/A	5.5- 7.0	8.7 on 6.5	27.9	26.6	12.6	716	12.5	1709	-	51
2234863	225/70R16	103T	-	BSW	720 A/A	6.0- 7.5	9.0 on 6.5	28.4	28.5	12.8	704	12.5	1929	-	51
2181613	P225/75R16	104T	-	BSW	720 A/A	7.0- 9.0	10.5 on 7.5	31.7	29.8	14.1	630	12.5	1984	-	51
2246803	LT225/75R16	115/112S	E-Ply/10-Ply	BSW	-	6.0- 7.0	8.8 on 6.0	29.3	39.8	13.1	682	14.5	2680	2470	80
2234843	235/60R16	104T	XL	BSW	720 A/A	6.5- 8.5	9.4 on 7.0	27.1	28.9	12.3	738	12.5	1985	-	50
2181673	235/70R16	106T	-	BSW	720 A/A	6.0- 8.0	9.4 on 7.0	29.0	31.1	13.1	689	12.5	2094	-	51
2205803	P235/75R16	106T	-	BSW	720 A/A	5.5- 7.0	8.7 on 6.5	29.8	33.0	12.6	671	12.5	2094	-	51
2182153	LT235/85R16	120/116R	E-Ply/10-Ply	BSW	-	6.5- 8.0	9.8 on 7.0	31.7	44.9	13.6	630	14.5	3042	2778	80
2230883	245/70R16	111T	XL	BSW	720 A/A	6.5- 8.0	9.8 on 7.0	29.5	34.5	13.3	677	12.5	2403	-	50
2181813	P245/75R16	109T	-	BSW	720 A/A	6.5- 8.0	9.8 on 7.0	30.5	33.2	13.6	655	12.5	2271	-	51
2228623	LT245/75R16	120/116Q	E-Ply/10-Ply	BSW	-	6.5- 8.5	10.2 on 7.5	30.1	41.9	13.5	664	12.0	3042	2778	80
2230903	255/70R16	111T	-	BSW	720 A/A	7.0- 9.0	10.2 on 7.5	30.1	34.0	13.5	664	12.5	2403	-	51
2181953	265/70R16	112T	-	BSW	720 A/A	7.0- 9.0	10.7 on 8.0	30.6	37.4	13.7	653	12.5	2469	-	51
2182013	P265/75R16	114T	-	BSW	720 A/A	6.0- 8.0	9.4 on 7.0	29.0	40.1	13.1	689	12.5	2601	-	51
2278483	LT265/75R16	123/120R	E-Ply/10-Ply	BSW	-	5.5- 7.5	8.4 on 6.6	28.8	49.9	13.7	807	14.5	3415	3085	80
2230923	P275/70R16	114T	-	BSW	720 A/A	7.0- 9.0	11.0 on 8.0	31.2	38.7	13.9	641	12.5	2601	-	51
2227983	225/65R17	102T	-	BSW	720 A/A	6.0- 8.0	9.0 on 6.5	28.5	29.2	13.0	701	12.5	1874	-	51
2208603	235/60R17	102T	-	BSW	720 A/A	6.5- 8.5	9.4 on 7.0	28.1	29.1	12.8	711	12.5	1874	-	51
2228003	235/65R17	104T	-	BSW	720 A/A	6.5- 8.5	9.4 on 7.0	29.1	30.6	13.2	693	12.5	1984	-	51
2205893	P235/70R17	108T	XL	BSW	720 A/A	7.0- 9.0	10.7 on 8.0	30.0	33.7	14.7	666	12.5	2183	-	50
2231233	235/75R17	109T	-	BSW	720 A/A	6.0- 8.0	9.3 on 6.5	30.9	34.0	13.9	647	12.5	2271	-	51
2182273	LT235/80R17	120/117R	E-Ply/10-Ply	BSW	-	6.0- 7.5	9.3 on 6.5	28.1	45.3	12.8	711	14.5	3085	2835	80
2181753	245/65R17	111T	XL	BSW	720 A/A	7.0- 8.5	9.8 on 7.0	29.5	34.5	13.4	677	12.5	2403	-	50

XL- Extra Load/Reinforced Tire | C- 6 ply | D- 8 ply | E- 10 ply | BSW- Black Sidewall

CRUGEN HT51

TREAD CODE HT51

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2181793	245/70R17	110T	-	BSW	720 A/A	6.5- 8.0	9.8 on 7.0	30.6	34.3	13.8	653	12.5	2337	-	51
2182173	LT245/70R17	119/116S	E-Ply/10-Ply	BSW	-	6.5- 8.0	9.8 on 7.0	30.6	45.7	13.8	653	14.5	3000	2755	80
2182293	LT245/75R17	121/118S	E-Ply/10-Ply	BSW	-	6.5- 8.5	10.2 on 7.5	31.5	46.3	14.5	634	14.5	3195	2910	80
2181833	255/65R17	110T	-	BSW	720 A/A	7.0- 9.0	10.2 on 7.5	30.1	35.2	13.6	664	12.5	2337	-	51
2262153	255/70R17	112T	-	BSW	720 A/A	6.5- 8.5	10.2 on 7.5	31.1	35.2	14.0	643	12.5	2469	-	51
2181913	265/65R17	112T	-	BSW	720 A/A	7.5- 9.5	10.7 on 8.0	30.6	36.3	13.8	653	12.5	2469	-	51
2181973	P265/70R17	113T	-	BSW	720 A/A	7.5- 9.5	11.0 on 8.0	31.7	39.4	14.5	630	12.5	2535	-	51
2182253	LT265/70R17	121/118S	E-Ply/10-Ply	BSW	-	7.5- 9.5	11.0 on 8.0	31.7	53.0	15.1	630	14.5	3195	2910	80
2231423	245/60R18	105T	-	BSW	720 A/A	7.0- 8.5	9.8 on 7.0	29.6	32.0	13.5	675	12.5	2039	-	51
2205783	P255/70R18	112T	-	BSW	720 A/A	6.0- 7.0	8.8 on 6.0	32.1	38.9	13.2	623	12.5	2469	-	51
2230863	265/60R18	110T	-	BSW	720 A/A	7.5- 9.5	10.7 on 8.0	30.5	36.1	13.9	655	12.5	2337	-	51
2205933	P265/65R18	112T	-	BSW	720 A/A	6.0- 7.5	9.3 on 6.5	31.6	37.2	14.3	632	12.5	2469	-	51
2205833	P265/70R18	114T	-	BSW	720 A/A	6.5- 8.0	9.8 on 7.0	32.6	39.1	13.6	613	12.5	2601	-	51
2231213	LT265/70R18	124/121R	E-Ply/10-Ply	BSW	-	7.0- 9.0	10.7 on 8.0	32.6	53.0	14.7	613	14.5	3525	3195	80
2205913	P275/65R18	114T	-	BSW	720 A/A	6.5- 7.5	9.8 on 7.0	32.1	40.8	14.2	623	12.0	2601	-	51
2182333	LT275/65R18	123/120R	E-Ply/10-Ply	BSW	-	6.5- 8.0	9.8 on 7.0	32.1	52.9	13.8	623	14.5	3415	3085	80
2182233	LT275/70R18	125/122R	E-Ply/10-Ply	BSW	-	7.0- 8.0	10.5 on 7.5	33.2	56.2	14.1	602	14.5	3640	3305	80
2231383	245/55R19	103T	-	BSW	720 A/A	7.0- 8.5	10.0 on 7.5	29.6	33.0	13.7	675	12.0	1929	-	51
2231403	265/50R20	111T	XL	BSW	720 A/A	7.5- 9.5	10.9. on 8.5	30.5	37.9	14.1	655	12.0	2403	-	50
2182033	P275/55R20	111T	-	BSW	720 A/A	7.5- 9.5	11.2 on 8.5	31.9	40.9	14.6	626	12.0	2403	-	51
2205873	P275/60R20	114T	-	BSW	720 A/A	7.0- 8.5	11.0 on 8.0	33.0	41.4	14.9	606	12.5	2601	-	51
2261663	285/45R22	114H	XL	BSW	720 A/A	9.0- 10.5	11.2 on 9.5	32.1	42.8	14.9	623	12.0	2601	-	50
2282093	LT185/60R15C	94/92T	LRD/8-Ply	BSW	-	5.0- 6.5	7.4 on 5.5	23.7	25.3	10.9	851	14.5	1477	1389	54
2282053	LT215/85R16C	115/112Q	LRE/10-Ply	BSW	-	5.5- 7.0	8.5 on 6.0	30.4	41.0	13.6	663	14.5	2680	2470	83
2282043	LT225/75R16C	121/120R	LRE/10-Ply	BSW	-	6.0- 7.0	8.8 on 6.0	29.3	39.7	13.2	688	14.5	3195	3085	83
2282033	LT235/65R16C	121/120R	LRE/10-Ply	BSW	-	6.5- 8.5	9.4 on 7.0	28.0	39.3	12.7	720	14.5	3195	3000	83

XL- Extra Load/Reinforced Tire | E- 10 ply | BSW- Black Sidewall

CRUGEN
Commercial   HT51

BUILT TO HANDLE THE EXTRAODINARY DEMANDS

Class: Commercial Highway All-Season

Engineered with commercial-grade technology for added durability, greater longevity and all-season performance capabilities, the Crugen HT51 Commercial excels in passenger transportation, delivery hauling, and commercial applications.

BENEFITS & TECHNOLOGY

- 5-rib tread design features a stiff center block design for improved straight-line stability and enhanced dry traction

- Wear-oriented compound in combination with a wider, squared cavity design for even grip force distribution extends longevity

- Designed with 3D zig-zag sipes that provide biting edges for augumented traction and stability on snow covered roads

- Four wide, circumferential grooves create a vortex effect to enhance hydroplaning resistance for better performance in wet conditions

- Application of two wide steel belts that are reinforced by two spirally-wrapped nylon cord caps along with a fortified sidewall construction enhances durability

Tread Classification: Asymmetric | UTQG None | Q, R, & T RATED

PERFORMANCE RATINGS

Category	Rating
DRY	8
WET	8
NOISE	9
WEAR	7
COMFORT	9
SNOW	9
OFF-ROAD	5

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Dodge Ram ProMaster; Chevrolet Express; Mercedes Sprinter; Nissan NV Cargo; Ford Transit

COMPARABLE COMPETITOR PRODUCTS

Michelin Agilis Crossclimate; Hankook Dynapro HT RH12; Nexen Roadian CT8 HL; Continental Vancontact A/S

CRUGEN
Commercial HT51

TREAD CODE HT51

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2282093	LT185/60R15C	94/92T	LRD/8-Ply	BSW	-	5.5- 6.0	7.4 on 5.5	23.7	25.3	10.9	851	14.5	1477	1389	54
2282053	LT215/85R16C	115/112Q	LRE/10-Ply	BSW	-	5.5- 7.0	8.5 on 6.0	30.4	41.0	13.6	663	14.5	2680	2470	83
2282043	LT225/75R16C	121/120R	LRE/10-Ply	BSW	-	6.0- 7.0	8.8 on 6.0	29.3	39.7	13.2	688	14.5	3195	3085	83
2282033	LT235/65R16C	121/120R	LRE/10-Ply	BSW	-	6.5- 7.5	9.4 on 7.0	28.0	39.3	12.7	720	14.5	3195	3000	83

XL- Extra Load/Reinforced Tire | E- 10 ply | BSW- Black Sidewall

ROAD VENTURE AT52

BUILT TO HANDLE

Class: All-Terrain

Designed for the drivers of pickup trucks, sport utility vehicles and jeeps, the Kumho Road Venture AT52 blends the perfect combiation of performance to take command of rugged terrains, deliver on-road comfort and instill a confidence inspiring all-season ride. The Road Venture AT52 will provide year-round traction in any situation including winter condition driving.

BENEFITS & TECHNOLOGY

- All-season, cut-and-chip resistant compound is molded into the asymmetric tread pattern to resist irregular wear

- Rugged shoulder blocks with saw-tooth like edges for off-road traction

- Multi-angle sipes and zig-zag grooves enhance all-season performance

- Large, interlocking tread blocks for enhanced durability and tread life

- Application of rigid center blocks for improved handling and straight-line driving

- Deep lateral grooves help provide the clawing action needed to find grip in loose terrain and snow

- Wide, sub-lateral grooves enhance traction in wet diving conditions and provide confident off-road traction

- Multi-angle sipes amplify performance in wet and snowy conditions

Tread Classification: Asymmetric | UTQG None | R, S, & T RATED

30 DAYS WARRANTY

55K MILEAGE WARRANTY P-METRIC ONLY

50K MILEAGE WARRANTY LT-METRIC ONLY

ROAD HAZARD PROTECTION KUMHO TIRE

PERFORMANCE RATINGS

DRY	8
WET	9
NOISE	8
WEAR	9
COMFORT	7
SNOW	9
OFF-ROAD	8

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Ford F-150; Chevy Silverado; Dodge Ram

COMPARABLE COMPETITOR PRODUCTS

Yokohama Geolandar X-AT; Falken Wildpeak A/T3W; Hankook Dynapro AT2; General Grabber A/TX; Cooper Discoverer Rugged Trek

Available tire sizes on next page.

ROADVENTURE AT52

...Continued from previous page

TREAD CODE AT52

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2290153	LT215/75R15	106/103R	LRD/ 8-Ply	BSW	-	5.5- 7.0	8.5 on 6.0	27.7	34.1	12.4	728	16.0	2095	1930	65
2289873	235/75R15	109T	XL	BSW	680 A/A	6.0- 8.0	9.3 on 6.5	28.9	33.9	12.9	698	13.5	2271	-	50
2290093	LT235/75R15	104/101S	LRC / 6-Ply	BSW	-	6.0- 8.0	9.3 on 6.5	28.9	33.9	12.9	698	16.0	1985	1820	50
2290123	30X9.5R15	104S	LRC / 6-Ply	BSW	-	6.0- 8.0	9.4 on 7.5	29.5	36.5	13.1	684	16.0	1985	-	50
2283883	31X10.5R15	109S	LRC / 6-Ply	BSW	-	7.0- 9.0	10.6 on 8.5	30.5	42.0	13.5	661	16.0	2270	-	50
2289923	LT225/75R16	115/112S	LRE / 10-Ply	BSW	-	6.0- 7.5	8.8 on 6.0	29.3	40.9	13.2	688	16.0	2680	2469	80
2289893	235/70R16	106T	-	BSW	680 A/A	6.0- 8.0	9.4 on 7.	29.0	31.4	13.1	695	13.5	2094	-	51
2283913	LT235/85R16	120/116S	LRE / 10-Ply	BSW	-	6.0- 7.5	9.3 on 6.5	31.7	46.7	14.1	636	16.0	3042	2778	80
2290043	245/70R16	111T	XL	BSW	680 A/A	6.5- 8.0	9.8 on 7.0	29.5	35.1	13.3	684	13.5	2403	-	50
2289903	245/75R16	111T	-	BSW	680 A/A	6.5- 8.0	9.8 on 7.0	30.5	35.1	13.7	661	13.5	2403	-	51
2283793	LT245/75R16	120/116S	LRE / 10-Ply	BSW	-	6.5- 8.0	9.8 on 7.0	30.5	45.2	13.7	661	16.0	3042	2778	80
2290003	255/70R16	111T	-	BSW	680 A/A	6.5- 8.5	10.2 on 7.5	30.1	35.9	13.5	670	13.5	2403	-	51
2283783	265/70R16	112T	-	BSW	680 A/A	7.0- 9.0	10.7 on 8.0	30.6	37.3	13.7	659	13.5	2469	-	51
2283853	265/75R16	116T	-	BSW	680 A/A	7.0- 9.0	10.5 on 7.5	31.7	40.7	14.1	636	13.5	2756	-	51
2283763	LT265/75R16	123/120R	LRE / 10-Ply	BSW	-	7.0- 9.0	10.5 on 7.5	31.7	50.9	14.1	636	16.0	3415	3085	80
2289883	LT285/75R16	126/123R	LRE / 10-Ply	BSW	-	7.5- 9.5	11.3 on 8.0	32.8	53.9	14.6	615	16.0	3750	3415	80
2290133	235/65R17	108T	XL	BSW	680 A/A	6.5- 8.5	9.4 on 7.0	29.1	33.0	13.2	693	13.5	2205	-	50
2283873	LT235/80R17	120/117R	LRE / 10-Ply	BSW	-	6.0- 8.0	9.3 on 6.5	31.8	44.7	14.3	634	16.0	3085	2835	80
2283903	245/65R17	107T	-	BSW	680 A/A	7.0- 8.5	9.8 on 7.0	29.5	31.7	13.4	684	13.5	2149	-	51
2289913	245/70R17	110T	-	BSW	680 A/A	6.5- 8.0	9.8 on 7.0	30.6	35.2	13.8	659	13.5	2337	-	51
2289973	LT245/70R17	119/116S	LRE / 10-Ply	BSW	-	6.5- 8.0	9.8 on 7.0	30.6	44.2	13.8	659	16.0	3000	2756	80
2283773	LT245/75R17	121/118S	LRE / 10-Ply	BSW	-	6.5- 8.0	9.8 on 7.0	31.5	46.4	14.1	640	16.0	3195	2910	80
2283933	255/70R17	112T	-	BSW	680 A/A	6.5- 8.5	10.2 on 7.5	31.1	38.2	14.0	648	13.5	2469	-	51
2289963	255/75R17	115T	-	BSW	680 A/A	6.5- 8.5	10.0 on 7.0	32.0	37.1	14.4	630	13.5	2679	-	51
2290163	LT255/75R17	111/108R	LRC / 6-Ply	BSW	-	6.5- 8.5	10.0 on 7.0	32.0	42.3	14.4	630	16.0	2405	2205	50
2289933	265/65R17	112T	-	BSW	680 A/A	7.5- 9.5	10.7 on 8.0	30.6	36.1	13.8	659	13.5	2469	-	51
2304403	265/70R17	115T	-	BSW	680 A/A	7.0- 9.0	10.7 on 8.0	31.7	37.9	14.2	636	13.5	2679	-	51
2283723	LT265/70R17	121/118S	LRE / 10-Ply	BSW	-	7.0- 9.0	10.7 on 8.0	31.7	51.1	14.2	636	16.0	3195	2910	80
2290113	LT275/70R17	121/118R	LRE / 10-Ply	BSW	-	7.0- 9.0	11.0 on 8.0	32.2	49.7	14.4	626	16.0	3195	2910	80

XL- Extra Load/Reinforced Tire | E- 10 ply | BSW- Black Sidewall

54 KumhoUSA.com

ROADVENTURE AT52

TREAD CODE AT52

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2283813	LT285/70R17	121/118R	LRE / 10-Ply	BSW	-	7.5- 9.5	11.5 on 8.5	32.8	54.6	14.6	615	16.0	3195	2910	80
2290013	LT315/70R17	121/118S	LRE / 10-Ply	BSW	-	8.0- 10.5	12.7 on 9.5	34.4	60.3	15.3	586	16.0	3195	2910	80
2290063	35X12.5R17	121/118R	LRE / 10-Ply	BSW	-	8.0- 10.5	12.5 on 10.0	34.5	44.2	15.4	585	16.0	3195	2918	65
2289983	255/70R18	113T	-	BSW	680 A/A	6.5- 8.5	10.2 on 7.5	32.1	39.8	14.5	628	13.5	2535	-	51
2283863	265/60R18	110T	-	BSW	680 A/A	7.5- 9.5	10.7 on 8.0	30.5	38.8	13.9	661	13.5	2337	-	51
2283843	265/65R18	114T	-	BSW	680 A/A	7.5- 9.5	10.7 on 8.0	31.5	41.0	14.3	640	13.5	2601	-	51
2290033	265/70R18	116T	-	BSW	680 A/A	7.0- 9.0	10.7 on 8.0	32.6	40.5	14.7	619	13.5	2756	-	51
2283893	LT265/70R18	124/121S	LRE / 10-Ply	BSW	-	7.0- 9.0	10.7 on 8.0	32.6	53.9	14.7	619	16.0	3525	3195	80
2283803	275/65R18	116T	-	BSW	680 A/A	7.5- 9.5	11.0 on 8.0	32.1	41.7	14.5	628	13.5	2756	-	51
2283823	LT275/65R18	123/120S	LRE / 10-Ply	BSW	-	8.0- 9.5	11.0 on 8.0	32.1	53.1	14.5	628	16.0	3415	3085	80
2283743	LT275/70R18	125/122S	LRE / 10-Ply	BSW	-	7.0- 9.0	11.0 on 8.0	33.2	55.1	14.9	607	16.0	3640	3305	80
2289993	LT285/65R18	125/122S	LRE / 10-Ply	BSW	-	8.5- 10.0	11.5 on 8.5	32.6	54.9	14.7	619	16.0	3640	3305	80
2290103	LT295/70R18	129/126S	LRE / 10-Ply	BSW	-	7.5- 10.0	11.8 on 8.5	34.3	57.0	15.4	588	16.0	4080	3750	80
2290083	35X12.5R18	128R	LRF / 12-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	34.5	50.3	15.4	585	16.0	3970	-	80
2289953	LT265/60R20	121/118S	LRE / 10-Ply	BSW	-	8.0- 9.5	10.7 on 8.0	32.5	52.1	14.9	621	16.0	3195	2910	80
2283753	275/55R20	113T	-	BSW	680 A/A	7.5- 9.5	11.2 on 8.5	31.9	44.0	14.6	632	13.5	2535	-	51
2283733	275/60R20	115T	-	BSW	680 A/A	7.5- 9.5	11.0 on 8.0	33.0	41.8	15.1	611	13.5	2679	-	51
2289943	LT275/55R20	120/117S	LRE / 10-Ply	BSW	-	8.0- 9.5	11.2 on 8.5	31.9	52.9	14.6	632	16.0	3085	2835	80
2283833	LT275/65R20	126/123S	LRE / 10-Ply	BSW	-	8.0- 9.5	11.0 on 8.0	34.1	55.4	15.5	591	16.0	3750	3415	80
2290053	LT285/55R20	122/119R	LRE / 10-Ply	BSW	-	8.5- 10.0	11.7 on 9.0	32.4	56.2	14.8	622	16.0	3305	3000	80
2290073	LT285/60R20	125/122S	LRE / 10-Ply	BSW	-	8.5- 10.0	11.5 on 8.5	33.5	52.9	15.2	602	16.0	3640	3305	80
2290023	LT305/55R20	121/118S	LRE / 10-Ply	BSW	-	9.0- 11.0	12.4 on 9.5	33.2	61.2	15.2	607	16.0	3195	2918	65
2290143	33X12.5R20	119Q	LRF / 12-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	32.5	44.2	14.9	621	16.0	3000	-	80
2283923	35X12.5R20	121R	LRE / 10-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	34.5	62.9	15.7	585	16.0	3195	-	65
2290173	37X12.5R20	126R	LRE / 10-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	36.5	55.0	16.5	553	16.0	3750	-	65

XL- Extra Load/Reinforced Tire | E- 10 ply | BSW- Black Sidewall

ROAD VENTURE *AT51*

OFF-ROAD PERFORMANCE, FINE TUNED FOR THE ROAD

Class: All-Terrain

The Road Venture AT51 offers world-class traction off-road, and surprising comfort on the road. It's well-adapted to deep snow, muddy job sites and wet highways, with a ride that rivals many touring tires. Superbly balanced on/off-road performance, with exceptional efficiency.

BENEFITS & TECHNOLOGY

- Class-leading performance in the mud and snow, with an angled chamfer that creates hundreds of gripping edges, and a deep, tapered tread block that promotes self-cleaning

- Engineered for a quiet, comfortable ride, with a symmetric tread design and variable-pitch tread blocks to reduce road harmonics

- Excellent grip and stability in inclement weather, with deep central grooves to channel rain and snow away quickly

- For long tread wear and fuel efficiency, the dual silica compound is engineered to cool quickly and wear evenly

50K MILEAGE WARRANTY P-METRIC ONLY

Tread Classification: Symmetric | UTQG 540 A/A (P-Metric Only) | R & T RATED

PERFORMANCE RATINGS

DRY	7
WET	7
NOISE	6
WEAR	7
COMFORT	6
SNOW	8
OFF-ROAD	8

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Chevrolet Pickup; Dodge/Ram Pickup; Ford Pickup; Hummer H2 and H3; Jeep Wrangler; Nissan Titan; Toyota Tundra

COMPARABLE COMPETITOR PRODUCTS

BFG All Terrain KO2; Michelin LTX A/T2; Goodyear Wrangler AT/S; Pirelli Scorpion ATR; Yokohama Geolander A/T-S; Cooper Discoverer AT3

Available tire sizes on next page.

ROAD VENTURE *AT51*

TREAD CODE AT51

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2178023	32X11.50R15	113R	LRC / 6-Ply	BSW	-	6.5- 8.5	10.2 on 7.5	31.5	44.4	11.7	634	16.0	2535		50
2178043	33X12.50R15	108R	LRC / 6-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	32.5	50.7	12.6	615	16.0	2205		35
2177523	LT215/75R15	106/103R	LRD/ 8-Ply	BSW	-	5.5- 7.0	8.5 on 6.0	27.7	34.6	12.4	722	16.0	2095	1930	65
2305573	LT215/75R15	106/103Q	LRD/ 8-Ply	BSW	-	5.5- 7.0	8.5 on 6.0	27.7	35.6	12.4	750	15.6	2095	1930	65
2305593	LT215/85R16	115/112Q	LRE / 10-Ply	BSW	-	5.5- 7.0	8.5 on 6.0	30.4	43.8	13.6	683	15.6	2680	2470	80
2177923	LT305/70R16	124/121R	LRE / 10-Ply	BSW	-	8.0- 9.5	12.2 on 9.0	32.8	61.2	12.4	609	16.0	3525	3195	65
2177983	LT315/75R16	121/118R	LRD/ 8-Ply	BSW	-	8.0- 11.0	12.3 on 8.5	34.6	65.4	15.2	578	16.0	3195	2910	50
2208523	235/75R17	109T	-	BSW	540 A/A	6.0- 8.0	9.3 on 6.5	30.9	36.2	12.3	647	13.0	2271		51

XL- Extra Load/Reinforced Tire | C- 6 ply | D- 8 ply | E- 10 ply | BSW- Black Sidewall

ROADVENTURE MT71

AGGRESSIVE OFF-ROAD DESIGN, ON-ROAD SENSIBILITIES

Class: Mud-Terrain

If you are looking for a tire that will get you through nature's toughest obstacles, look no further than the Road Venture MT71! With our high void tread pattern, you are guaranteed maximum off-road traction! We've also added in stone-ejector bars to prevent damage from stone drills which aids self-cleaning. With the Road Venture MT71's aggressive tread design, you will have better off-road traction, durability, and on-road handling.
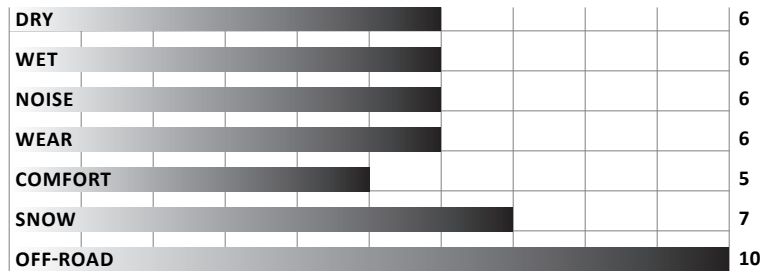
BENEFITS & TECHNOLOGY

- Increased block stiffness for enhanced on/off-road handling performance characteristics

- The high-void tread pattern features a zig-zag and dual-pitch design to provide maximum off-road traction

- Application of mud and stone ejector bars between the shoulder lugs to prevent damage from stone drills and aid self-cleaning

- Enhanced tread compound to improve wear performance on the road while maintaining cut-and-chip resistance off the road

Tread Classification: Symmetric | Q RATED

SATISFACTION GUARANTEED
30 DAYS WARRANTY

PERFORMANCE RATINGS

Category	Rating
DRY	6
WET	6
NOISE	6
WEAR	6
COMFORT	5
SNOW	7
OFF-ROAD	10

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

GMC Yukon; Chevrolet Pickups; Ram Pickups; Toyota Pickups; Ford Pickups; Jeep Wranglers

COMPARABLE COMPETITOR PRODUCTS

Toyo Open Country M/T; Nitto Trail Grappler M/T; Nexen Roadian MT; BFGoodrich Mud-Terrain T/A KM2

Available tire sizes on next page.

ROADVENTURE MT71

TREAD CODE MT71

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2270733	31X10.5R15	109Q	C-Ply / 6-Ply	BSW	-	7.0- 9.0	10.6 on 8.5	30.7	49.3	13.6	656	19.0	2270	-	50
2262503	33X12.5R15	108Q	C-Ply / 6-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	32.8	62.2	14.4	616	21.0	2205	-	35
2273923	35X12.5R15	113Q	C-Ply / 6-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	34.8	69.2	15.2	580	21.0	2535	-	35
2270743	LT235/85R16	120/116Q	E-Ply / 10-Ply	BSW	-	6.0- 7.5	9.3 on 6.5	32.0	55.0	14.2	631	18.0	3042	2778	80
2262623	LT265/75R16	123/120Q	E-Ply / 10-Ply	BSW	-	7.0- 8.0	10.5 on 7.5	31.9	59.1	14.2	632	19.0	3415	3085	80
2262663	LT285/75R16	126/123Q	E-Ply / 10-Ply	BSW	-	7.5- 9.0	11.3 on 8.0	33.1	66.3	14.7	610	19.0	3750	3415	80
2262713	LT315/75R16	127/124Q	E-Ply / 10-Ply	BSW	-	8.0- 11.0	12.3 on 8.5	34.8	77.5	15.3	579	20.0	3860	3525	65
2281983	33X12.5R17	120Q	E-Ply / 10-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	32.8	71.9	14.6	616	21.0	3085	-	65
2262533	35X12.5R17	121Q	E-Ply / 10-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	34.8	77.9	15.4	580	21.0	3195	-	65
2281933	37X12.5R17	121Q	F-Ply / 12-Ply	BSW	-	8.5- 10.5	12.5 on 10.0	36.8	84.1	16.2	548	21.0	3195	-	80
2262603	LT255/75R17	111/108Q	C-Ply / 6-Ply	BSW	-	6.5- 8.5	10.0 on 7.0	32.3	49.3	14.5	625	19.0	2405	2205	50
2262613	LT265/70R17	121/118Q	E-Ply / 10-Ply	BSW	-	7.0- 8.5	10.7 on 8.0	31.9	61.5	14.3	632	19.0	3195	2910	80
2262653	LT285/70R17	121/118Q	E-Ply / 10-Ply	BSW	-	7.5- 9.0	11.5 on 8.5	33.0	66.9	14.7	611	19.0	3195	2910	80
2262683	LT295/70R17	121/118Q	E-Ply / 10-Ply	BSW	-	7.5- 10.0	11.8 on 8.5	33.5	70.7	15.0	601	20.0	3195	2910	80
2262723	LT315/70R17	121/118Q	E-Ply / 10-Ply	BSW	-	8.0- 11.0	12.7 on 9.5	34.6	77.7	15.4	582	20.0	3195	2910	65
2262513	33X12.5R18	122Q	F-Ply / 12-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	32.8	71.9	14.8	616	21.0	3305	-	80
2262543	35X12.5R18	128Q	F-Ply / 12-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	34.8	78.0	15.5	580	21.0	3970	-	80
2270723	LT275/65R18	123/120Q	E-Ply / 10-Ply	BSW	-	7.5- 9.0	11.0 on 8.0	32.3	63.9	14.6	624	19.0	3415	3085	80
2262643	LT275/70R18	125/122Q	E-Ply / 10-Ply	BSW	-	7.0- 8.5	11.0 on 8.0	33.4	66.4	15.0	603	19.0	3640	3305	80
2262693	LT295/70R18	129/126Q	E-Ply / 10-Ply	BSW	-	7.5- 10.0	11.8 on 8.5	34.5	73.6	15.4	584	20.0	4080	3750	80
2262523	33X12.5R20	119Q	F-Ply / 12-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	32.8	70.4	15.0	616	21.0	3000	-	80
2262553	35X12.5R20	125Q	F-Ply / 12-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	34.8	78.2	15.8	580	21.0	3640	-	80
2281963	37X12.5R20	126Q	E-Ply / 10-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	36.8	82.7	16.5	548	21.0	3750	-	65
2262583	37X13.5R20	127Q	E-Ply / 10-Ply	BSW	-	9.0- 12.0	13.6 on 11.0	36.8	85.7	16.5	548	21.0	3860	-	65
2262633	LT275/65R20	126/123Q	E-Ply / 10-Ply	BSW	-	7.5- 9.0	11.0 on 8.0	34.3	68.5	15.6	587	19.0	3750	3415	80
2281973	LT285/55R20	122/119Q	E-Ply / 10-Ply	BSW	-	8.5- 10.0	11.7 on 9.0	32.6	66.6	14.9	619	19.0	3305	3000	80
2262673	LT295/55R20	123/120Q	E-Ply / 10-Ply	BSW	-	8.0- 10.0	12.2 on 9.5	33.0	70.4	15.1	611	20.0	3415	3085	80
2262703	LT305/55R20	125/122Q	F-Ply / 12-Ply	BSW	-	8.5- 11.0	12.4 on 9.5	33.5	73.2	15.3	603	20.0	3640	3305	80
2281953	33X12.5R22	109Q	E-Ply / 10-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	32.8	65.7	15.2	616	19.0	2270	-	65
2281943	35X12.5R22	117Q	E-Ply / 10-Ply	BSW	-	8.5- 11.0	12.5 on 10.0	34.8	75.4	16.0	580	21.0	2835	-	65
2262593	37X13.5R22	123Q	E-Ply / 10-Ply	BSW	-	9.0- 12.0	13.6 on 11.0	36.8	84.7	16.8	548	21.0	3415	-	65

C- 6 ply | D- 8 ply | E- 10 ply | BSW- Black Sidewall

ROAD VENTURE *MT51*

AGGRESSIVE OFF-ROAD DESIGN, ON-ROAD SENSIBILITIES

Class: Mud-Terrain

The Road Venture MT51 is an aggressive all-terrain tire that is able to deliver performance on and off-road. Its deep, multi-tiered tread leverages traction in any off-road condition: rocks, snow, mud, dirt, or anywhere else you need it. The durable tread design will also help keep you rolling when you need it the most, all while providing the aggressive look that consumers are looking for and a surprisingly quiet ride.

BENEFITS & TECHNOLOGY

- Multi-tiered tread design allows for maximum traction off-road, allowing the tire to gain reliable traction in dirt, mud and even rock crawling

- Able to stay clean to continue to gain traction in rough conditions due to stone and mud ejectors embedded in the tread design

- Sipes and stone ejectors help prevent cracking, stone drilling, cuts, and chips in the tire, prolonging the life and reliability of the tire

- Dual-Pitch tread design helps keep the tire quieter on the road compared to other Mud-Terrain tires on the market

Tread Classification: Symmetric | Q RATED

PERFORMANCE RATINGS
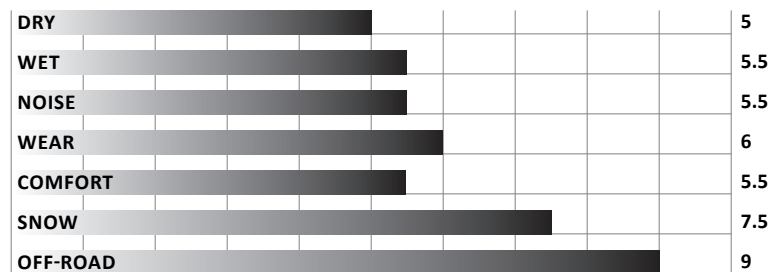
Category	Rating
DRY	5
WET	5.5
NOISE	5.5
WEAR	6
COMFORT	5.5
SNOW	7.5
OFF-ROAD	9

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not
designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

GMC Yukon; Chevrolet Pickups; Ford Pickups; Ram Pickups; Toyota Pickups; Jeep Wrangler

COMPARABLE COMPETITOR PRODUCTS

Toyo Open Country M/T; Nitto Trail Grappler M/T; Nexen Roadian MT; BFGoodrich Mud-Terrain T/A KM2

Available tire sizes on next page.

ROAD VENTURE *MT51*

TREAD CODE MT51

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
2168593	32X11.50R15	113Q	C-Ply / 6-Ply	BSW	-	8.0- 10.0	11.4 on 9.0	31.8	47.9	14.0	628	18.0	2535	-	50
2168653	LT235/75R15	110/107Q	D-Ply / 8-Ply	BSW	-	6.0- 8.0	9.3 on 6.5	28.9	41.8	12.9	692	18.0	2335	2150	65
2168553	LT225/75R16	115/112Q	E-Ply / 10-Ply	BSW	-	6.0- 7.0	8.8 on 6.0	29.5	42.9	13.3	677	18.0	2680	2470	80
2168533	LT245/75R16	120/116Q	E-Ply / 10-Ply	BSW	-	6.0- 8.0	9.8 on 7.0	30.7	52.6	13.7	651	18.0	3042	2778	80

C- 6 ply | D- 8 ply | E- 10 ply | BSW- Black Sidewall

ROAD VENTURE MT

NOTHING BUT EXTREME ALL-TERRAIN PERFORMANCE

Class: Mud-Terrain

This is what an all-terrain, all-condition, the all-excitement tire tire should be. The Road Venture MT takes on and conquers mud, rocks, rain, snow, rotted-out ruts and more — with ease. Chip-resistant compound, full-depth zigzag grooves and biting edges provide traction second to none with lots to spare. This is all-terrain taken seriously for the true off-road enthusiast.

BENEFITS & TECHNOLOGY

- Increased durability and reduced tire noise, characteristics of full-width steel belts and jointless cap plies

- On- and off-road tire stress reduced with dual body plies

- Outstanding climbing ability with dual pitch, off-center staggered tread blocks

- Offered in P-metric and LT-metric as well as large diameter flotation sizes

Tread Classification: Directional | Q RATED

PERFORMANCE RATINGS

DRY	4
WET	5
NOISE	5
WEAR	5
COMFORT	5
SNOW	7
OFF-ROAD	10

Numeric ratings reflect how a tire compares to other Kumho tires of similar type.
A rating of 10 indicates that the tire is designed to perform extremely well under those conditions.
A rating less than 4 or N/A (not applicable) indicates that the tire is not designed to excel in that area. 10 = Extremely Well, 5 = Acceptable, 1 = Poor.

SAMPLE VEHICLES

Chevrolet Pickups; Ram Pickups; Ford Pickups; Isuzu Rodeo; Jeep Wrangler; Toyota Pickups

COMPARABLE COMPETITOR PRODUCTS

BFG Mud Terrain T/A KM2; Goodyear Wrangler MT/R; Toyo Open Country M/T; Yokohama Geolander MT+; Firestone Destination M/T2

Available tire sizes on next page.

ROAD VENTURE MT

TREAD CODE KL71

Product Code	Tire Size	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
1891613	27X8.50R14	95Q	C-Ply / 6-Ply	BSW	-	6.0- 7.5	9.3 on 6.5	26.8	32.0	12.0	746	18.0	1520	-	50

C- 6 ply | D- 8 ply | E- 10 ply | BSW- Black Sidewall

ORIGINAL EQUIPMENT

| | | Solus TA31 | Crugen Premium KL33 | Majesty Solus KU50 | Crugen HP71 |

Model	Model Year	Product Code	Tire Size	Pattern ID	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
HYUNDAI																		
Elantra	2015-2018	2204733	205/55R16	TA31	91H	SL	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	24.9	19.1	11.5	810	10.0	1,356	-	
Elantra	2019-2020	2254422	205/55R16	TA31	91H	SL	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	24.9	18.4	11.5	810	10.0	1,356	-	
Elantra	2021-Pres	2278822	195/65R15	TA31	91H	SL	BSW	500 A/A	5.5- 7.0	7.9 on 6.0	25.0	16.3	11.6	840	9.0	1,356		44
Elantra	2021-Pres	2270282	205/55R16	TA31	91H	SL	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	25.0	18.1	11.7	840	9.0	1,356	-	44
Elantra	2021-Pres	2253352	225/45R17	KU50	91W	SL	BSW	500 AA/A	7.0- 8.5	8.9 on 7.5	25.0	20.2	11.6	807	10.0	1,356	-	51
Sonata	2020-Pres	2254482	205/65R16	TA31+	95H	SL	BSW	500 A/A	5.5- 7.5	8.2 on 6.0	26.5	19.8	12.1	761	9.5	1,521		
Sonata	2014-2019	2171893	205/65R16	TA31	95H	SL	BSW	500 A/A	5.5- 7.5	8.2 on 6.0	26.5	21.7	12.1	761	10.0	1,521	-	
Sonata	2014-2019	2175593	215/55R17	TA31	94V	SL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	26.3	23.1	12.1	767	10.0	1,477	-	
Sonata	2014-2019	2176083	235/45R18	KU26	94V	SL	BSW	440 A/A	7.5- 9.0	9.3 on 8.0	26.3	24.7	12.3	767	10.0	1,477	-	
Sonata HEV	2015-2019	2175593	215/55R17	TA31	94V	SL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	26.3	23.1	12.1	767	10.0	1,477	-	
Santa Fe	2018- 2020	2246442	235/60R18	KL33	103H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.8	13.3	693	11.0	1,929	-	
Santa Fe	2021- Pres	2282552	235/60R18	KL33	103H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.4	13.3	693	9.8	1,929	-	44
Santa Fe Sport / Santa Fe	2013- 2018	2176993	235/65R17	KL33	104H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.5	13.2	693	11.0	1,984	-	
Santa Fe Sport / Santa Fe	2013-2017	2152793	235/60R18	KL33	103H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	30.2	13.3	693	11.0	1,929	-	
Santa Fe Sport / Santa Fe	2013-2017	2147163	P235/55R19	KL33	101H	SL	BSW	440 A/A	6.5- 8.5	9.6 on 7.5	29.2	31.4	13.5	691	11.0	1,819	-	
Santa Fe Sport / Santa Fe	2013-2018	2152793	235/60R18	KL33	103H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	30.2	13.3	693	11.0	1,929	-	
Santa Fe Sport / Santa Fe	2013-2017	2147163	P235/55R19	KL33	101H	SL	BSW	440 A/A	6.5- 8.5	9.6 on 7.5	29.2	31.4	13.5	691	11.0	1,819	-	
Santa Cruz	2022-Pres	2265992	245/60R18	HP71	105H	SL	BSW	640 A/A	7.0- 9.0	10.2 on 7.5	30.0	29.8	13.7	702	11.3	2,205		51
Tucson	2015-2020	2172063	225/60R17	KL33	99H	SL	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	27.6	27.2	12.6	731	11.0	1,709	-	
Tucson	2015-2020	2176893	245/45R19	KL33	98H	SL	BSW	440 A/A	7.5- 9.0	9.6 on 8.0	27.7	28.1	12.9	728	10.5	1,653	-	
Tucson	2021-Pres	2270672	235/55R19	HP71	101H	SL	BSW	540 A/A	6.0- 8.5	9.5 on 7.5	29.2	29.7	13.6	692	9.4	1,819	-	51
Tucson	2022-Pres	2270662	235/65R17	HP71	104H	SL	BSW	540 A/A	6.5- 8.5	9.4 on 7.0	29.1	26.8	13.6	716	9.4	1,984	-	51
Veloster	2017-2020	2204203	215/45R17	TA31	87H	SL	BSW	500 A/A	7.0- 8.0	8.4 on 7.0	24.6	20.3	11.5	820	10.0	1,201	-	
Veloster	2011-2018	2173173	225/40R18	TA31	88V	SL	BSW	500 A/A	7.5- 9.0	9.1 on 8.0	25.1	24.2	11.8	804	10.0	1,235	-	
KIA																		
EV6	2022-Pres	2303463	235/55R19	HP71	101H	SL	BSW	500 A/A	6.5 – 8.5	9.7 on 7.5	29.2	28.9	13.8	712	9.3	1,819	-	51

SL- Standard Load | BSW- Black Sidewall

ORIGINAL EQUIPMENT

...Continued from previous page

| | | | Majesty 9 Solus TA91 | | | Crugen Premium KL33 | | | Solus TA31 | | Solus KH16 |

Model	Model Year	Product Code	Tire Size	Pattern ID	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
Forte	2016-2018	2174673	205/55R16	TA31	91H	SL	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	24.9	19.1	11.5	810	10.0	1,356	-	
Forte	2018-Pres	2253362	195/65R15	TA31	91T	SL	BSW	480 A/A	5.5- 7.0	7.9 on 6.0	25.0	17.2	11.4	807	9.5	1,356	-	
Forte	2018-Pres	2254422	205/55R16	TA31	91H	SL	BSW	500 A/A	5.5- 7.5	8.4 on 6.5	24.9	18.4	11.5	810	10.0	1,356	-	
Forte	2018-Pres	2253352	225/45R17	KU50	91W	SL	BSW	500 AA/A	7.0- 8.5	8.9 on 7.5	25.0	20.2	11.6	807	10.0	1,356	-	
Forte	2019-Pres	2218603	225/40R18	KU50	88W	SL	BSW	500 AA/A	7.5- 9.0	9.1 on 8.0	25.1	23.1	11.8	804	10.0	1,235	-	
Forte/Forte Koup/ Forte5	2012-2018	2157853	205/55R16	KH25	89H	SL	BSW	480 A/A	5.5- 7.5	8.4 on 6.5	24.9	19.1	11.5	810	9.5	1,279	-	
K5	2021-Pres	2254482	205/65R16	TA31+	95H	SL	BSW	500 A/A	5.5- 7.5	8.2 on 6.0	26.5	19.8	12.1	761	9.5	1,521	-	
Niro EV	2022-Pres	2283653	215/55R17	TA31	⍰94V	SL	BSW	500/A/A	6.0- 7.5	8.9 on 7.0	26.3	21.6	12.4	790	9.8	1,477	-⍰	51
Optima	2015-2020	2175593	215/55R17	TA31	94V	SL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	26.3	23.1	12.1	767	10.0	1,477	-	
Optima	2015-2020	2176083	235/45R18	KU26	94V	SL	BSW	440 A/A	7.5- 9.0	9.3 on 8.0	26.3	24.7	12.3	767	10.0	1,477	-	
Optima HEV	2016-2020	2175593	215/55R17	TA31	94V	SL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	26.3	23.1	12.1	767	10.0	1,477	-	
Rio	2016-2017	2204903	P185/65R15	TA31	86T	SL	BSW	500 A/A	5.0- 6.5	7.4 on 5.5	24.4	17.3	11.2	827	10.0	1,168	-	
Sedona	2014-2020	2172243	235/65R17	KL33	104H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.5	13.2	693	11.0	1,984	-	
Sedona	2014-2020	2172183	235/60R18	KL33	103H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.6	13.3	693	11.0	1,929	-	
Sedona	2014-2020	2172203	235/55R19	KL33	101H	SL	BSW	440 A/A	6.5- 8.5	9.6 on 7.5	29.2	30.9	13.5	691	11.0	1,819	-	
Seltos	2019-Pres	2262353	205/60R16	TA31+	92H	SL	BSW	500 A/A	5.5- 7.5	8.2 on 6.0	25.7	19.7	11.8	785	9.5	1,389	-	
Seltos	2019-Pres	2262393	215/55R17	TA31+	94V	SL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	26.3	21.3	12.1	767	9.5	1,477	-	
Seltos	2019-Pres	2254433	235/45R18	TA91	94V	SL	BSW	560 AA/A	7.5- 9.0	9.3 on 8.0	26.3	24.1	12.3	767	10.0	1,477	-	
Sorento	2014-2020	2176993	235/65R17	KL33	104H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.5	13.2	693	11.0	1,984	-	
Sorento	2014-2020	2177023	235/60R18	KL33	103H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.6	13.3	693	11.0	1,929	-	
Sorento	2014-2020	2176983	235/55R19	KL33	101H	SL	BSW	440 A/A	6.5- 8.5	9.6 on 7.5	29.2	30.5	13.5	691	11.0	1,819	-	
Sorento	2022- Pres	2282552	235/60R18	KL33	103H	SL	BSW	440 A/A	6.5- 8.5	9.4 on 7.0	29.1	29.4	13.3	693	9.8	1,929	-	44
Soul	2013-2018	2170193	205/60R16	TA31	92H	SL	BSW	500 A/A	5.5- 7.5	8.2 on 6.0	25.7	20.3	11.8	785	10.0	1,389	-	
Soul	2013-2018	2218653	215/55R17	TA31	94V	SL	BSW	500 A/A	6.0- 7.5	8.9 on 7.0	26.3	22.4	12.1	767	10.0	1,477	-	
Soul	2013-2018	2161673	235/45R18	TA31	94V	SL	BSW	500 A/A	7.5- 9.0	9.3 on 8.0	26.3	26.5	12.3	767	10.0	1,477	-	
Sportage	2015-2021	2172063	225/60R17	KL33	99H	SL	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	27.6	27.2	12.6	731	11.0	1,709	-	
Sportage	2015-2021	2176903	225/55R18	KL33	98H	SL	BSW	440 A/A	6.0- 8.0	9.2 on 7.0	27.8	28.1	12.8	725	11.0	1,653	-	
Sportage	2015-2021	2176893	245/45R19	KL33	98H	SL	BSW	440 A/A	7.5- 9.0	9.6 on 8.0	27.7	28.1	12.9	728	10.5	1,653	-	
Sportage	2023-Pres	2270662	235/65R17	HP71	104H	SL	BSW	540 A/A	6.5- 8.5	9.4 on 7.0	29.1	26.9	13.6	716	9.4	1,984	-	51

LL- Light Load | XL- Extra Load/Reinforced Tire | SL- Standard Load | BSW- Black Sidewall

ORIGINAL EQUIPMENT

Ecsta V720 ACR				**Crugen Premium KL33**				**Eco Solus KL21**				**Crugen HP71**				**Solus KH16**		

Model	Model Year	Product Code	Tire Size	Pattern ID	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
Sportage	2023-Pres	2282972	235/60R18	HP71	103H	SL	BSW	540 A/A	6.5- 8.5	9.6 on 7.5	29.1	28.2	13.6	712	9.4	1,929	-	51
Sportage	2023-Pres	2270672	235/55R19	HP71	101H	SL	BSW	540 A/A	6.5- 8.5	9.5 on 7.5	29.2	29.7	13.6	712	9.4	1,819	-	51
Telluride	2022-Pres	2268892	245/50R20	HP71	102V	SL	BSW	540 A/A	7.0- 8.5	9.8 on 7.5	29.7	29.3	13.8	704	9.2	1874	-	51

FIAT-CHRYSLER

Model	Model Year	Product Code	Tire Size	Pattern ID	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
Chrysler 200	2014-2016	2172003	235/45R18	TA31	94V	SL	BSW	480 A/A	7.5- 9.0	9.3 on 8.0	26.3	27.1	12.3	767	10.0	1,477	-	
Chrysler Pacifica	2016-2019	2161953	235/65R17	TA31	104H	SL	BSW	500 A/A	6.5- 8.5	9.4 on 7.0	29.1	30.7	13.2	693	10.0	1,984	-	
Chrysler Pacifica	2016-2019	2161943	245/50R20	TA31	102V	SL	BSW	500 A/A	6.5- 8.5	9.6 on 7.5	29.8	32.2	13.4	677	10.0	1,874	-	
"Chrysler Town & Country"	2011-2019	2103333	225/65R17	KH16	100H	SL	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	28.5	27.5	13.0	708	10.0	1,764	-	
Dodge Grand Caravan	2011-2019	2103333	225/65R17	KH16	100H	SL	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	28.5	27.5	13.0	708	10.0	1,764	-	
Dodge Dart	2012-2016	2153653	205/55R16	KH25	91H	SL	BSW	480 A/A	5.5- 7.5	8.4 on 6.5	24.9	21.0	11.5	810	10.0	1,356	-	
Dodge Dart	2012-2016	2141103	225/45R17	KH25	91H	SL	BSW	480 A/A	7.0- 8.5	8.9 on 7.5	25.0	22.4	11.6	807	10.5	1,356	-	
Dodge Durango	2010-2019	2119373	265/50R20	KL21	107V	SL	BSW	500 A/A	7.5- 9.5	10.9 on 8.5	30.5	35.6	14.1	661	10.0	2,150	-	
Dodge Durango	2016-2019	2176463	P265/60R18	KL33	109H	SL	BSW	440 A/A	7.5- 9.5	10.7 on 8.0	30.5	34.1	13.9	661	10.0	2,271	-	
Dodge Journey	2007-2019	2103333	225/65R17	KH16	100H	SL	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	28.5	27.5	13.0	708	10.0	1,764	-	
Dodge Journey	2007-2019	2139333	225/55R19	KH16	99H	SL	BSW	440 A/A	6.0- 8.0	9.2 on 7.0	28.8	28.0	13.3	700	10.0	1,709	-	
Dodge Viper ACR	2015-2017	2203723	P295/25ZR19	V720	90Y	SL	BSW	200 A/A	10.0- 11.0	12.1 on 10.5	24.9	27.3	12.4	810	6.0	1,323	-	
Dodge Viper ACR	2015-2017	2202803	P355/30ZR19	V720	99Y	SL	BSW	200 A/A	12.0- 13.0	14.2 on 12.5	27.5	41.0	13.7	733	6.5	1,709	-	
Fiat Freemont	2007-2019	2103333	225/65R17	KH16	100H	SL	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	28.5	27.5	13.0	708	10.0	1,764	-	
Fiat Freemont	2007-2019	2139333	225/55R19	KH16	99H	SL	BSW	440 A/A	6.0- 8.0	9.2 on 7.0	28.8	28.0	13.3	700	10.0	1,709	-	
Jeep Compass	2007-2016	2115343	225/60R17	KL21	99H	SL	BSW	500 A/A	6.0- 8.0	9.0 on 6.5	27.6	27.1	12.6	731	10.0	1,709	-	
Jeep Compass	2017-2019	2179313	215/65R16	KL33	98V	SL	BSW	440 A/A	6.0- 7.5	8.7 on 6.5	27.0	25.5	12.3	747	10.0	1,653	-	
Jeep Compass	2017-2019	2179323	225/60R17	KL33	99V	SL	BSW	440 A/A	6.0- 8.0	9.0 on 6.5	27.6	25.9	12.6	731	10.0	1,709	-	
Jeep Grand Cherokee	2010-2019	2125053	P245/65R18	KL21	110H	XL	BSW	500 A/A	7.0- 8.5	9.8 on 7.0	30.5	33.4	13.0	661	10.0	2,337	-	
Jeep Grand Cherokee	2010-2019	2119373	265/50R20	KL21	107V	SL	BSW	500 A/A	7.5- 9.5	10.9 on 8.5	30.5	35.6	14.1	661	10.0	2,150	-	
Jeep Patriot	2007-2016	2115343	225/60R17	KL21	99H	SL	BSW	500 A/A	6.0- 8.0	9.0 on 6.5	27.6	27.1	12.6	731	10.0	1,709	-	
Jeep Renegade	2014-2019	2176223	225/55R18	KL33	98H	SL	BSW	440 A/A	6.0- 8.0	9.2 on 7.0	27.8	28.2	12.8	725	11.0	1,653	-	
Jeep Renegade	2015-2019	2167653	215/60R17	KL33	100V	XL	BSW	440 A/A	6.0- 7.5	8.7 on 6.5	27.2	28.0	12.5	741	11.0	1,764	-	

XL- Extra Load/Reinforced Tire | SL- Standard Load | E- 10 ply | BSW- Black Sidewall

	Ecsta V70A	Crugen HP91	Solus KL21	Crugen HT51	Crugen Premium KL33	121	131

Model	Model Year	Product Code	Tire Size	Pattern ID	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
GENERAL MOTORS																		
Spark	15-Pres	2172033	185/55R15	TA31	82H	SL	BSW	500 A/A	5.0- 6.5	7.6 on 6.0	23.0	17.9	10.6	877	10.0	1,047	-	44
NISSAN																		
Pathfinder (P42QR)	2021-Pres	2264742	255/60R18	HP71	108H	SL	BSW	640/A/A	7.0- 9.0	10.2 on 7.5	30.0	31.9	13.5	672	10.7	2,205	-	51
Rogue	2014-2016	2159273	225/65R17	KL21	102H	SL	BSW	500 A/A	6.0- 8.0	9.0 on 6.5	28.5	26.2	13.0	708	10.0	1,874	-	51
Rogue	2017-2020	2237513	225/65R17	KL21	102H	SL	BSW	500 A/A	6.0- 8.0	9.0 on 6.5	28.5	26.2	13.0	708	10.0	1,874	-	51
Rogue (P33A)	2023-Pres	2282512	235/65R17	HP71	104H	SL	BSW	540/A/A	6.5- 8.5	9.6 on 7.0	29.1	27.5	13.7	716	9.4	1,984		51
VOLKSWAGEN																		
Atlas	2018-2019	2204173	245/60R18	KL33	105T	-	BSW	440 A/A	7.0- 8.5	9.8 on 7.0	29.6	31.8	13.5	681	10.5	2,039	-	
Atlas	2018-2019	2246332	255/50R20	KL33	105T	SL	BSW	440 A/A	7.0- 9.0	10.4 on 8.0	30.1	32.0	13.9	670	10.5	2,039	-	
Atlas F/L	2024-Pres	2301072	245/60R18	HP71	105T	SL	BSW	640/A/A	7.0- 8.5	10.2 on 8.0	30	31.3	13.8	696	10	2,039	-	51
Atlas F/L	2024-Pres	2301092	255/50R20	HP71	105T	SL	BSW	640/A/A	7.0- 9.0	10.5 on 8.0	30.4	32	13.9	686	10.1	2,039	-	51
ID.4 (EV)	2023-Pres	2278872	235/55R19	HP71	105T	SL	BSW	520/A/A	6.5- 8.5	10.1 on 8.0	29.6	29.5	13.7	701	10.1	2,039	-	50
ID.4 (EV)	2023-Pres	2279672	255/50R19	HP71	107T	SL	BSW	520/A/A	7.0- 9.0	10.7 on 8.0	29.5	31.3	13.5	706	10.1	2,149	-	50
ID.4 (EV)	2023-Pres	2281652	235/50R20	HP71	104T	SL	BSW	520 A/A	6.5- 8.5	10.1 on 8.0	29.7	29.5	13.8	699	10.1	1,984	-	50
ID.4 (EV)	2023-Pres	2281662	255/45R20	HP71	105T	SL	BSW	520 A/A	8.0- 9.5	10.5 on 9.0	29.4	31.1	13.7	710	10.1	2,039	-	50
Jetta	2022-Pres	2267772	205/60R16	TA31	92H	SL	BSW	500/A/A	5.5- 7.5	8.6 on 6.5	25.8	8.9	11.9	805	9.6	1,389	-	51
Jetta	2022-Pres	2267782	205/55R17	TA31	91H	SL	BSW	500/A/A	5.5- 7.5	8.7 on 7	26.2	9.0	12.1	793	9.2	1,356	-	51
Taos	2024-Pres	2280682	215/55R18	HP71	95H	SL	BSW	640/A/A	6.0- 7.5	9.3 on 7.5	27.7	24.3	13	754	9.9	1,521	-	51
AUDI																		
Q5	2020- Pres	2211452	235/55R19	KL33	101H	-	BSW	440 A/A	6.5- 8.5	9.6 on 7.5	29.2	29.9	13.5	691	10.5	1,819	-	
MERCEDES-BENZ																		
Sprinter	2019-Pres	2266033	LT245/75R16	HT51	120/ 116Q	E	BSW	-	6.5- 8.0	10.0 on 7.0	30.1	43.3	14.0	687	11.8	3,042	2,778	
G-Class	2013-Pres	2119303	265/60R18	KL21	110H	SL	BSW	500 A/A	7.5- 9.5	10.7 on 8.0	30.5	35.8	13.9	661	10.0	2,337	-	
BMW																		
X3	2017-2019	2227703	245/50R19	HP91	105W	XL	BSW	420 A/A	7.0- 8.5	10.0 on 7.5	28.7	28.9	13.3	703	10.0	2,039	-	
Mini Cooper GP	2012-2017	2147343	215/40R17	V70A	83W	SL	BSW	50 AA/A	7.0- 8.5	8.6 on 7.5	23.8	19.6	11.1	847	7.0	1,074	-	
VINFAST																		
VF 9	2023-Pres	2324773	275/45R20	HP71	110V	XL	BSW	520/A/A	8.5- 10.5		29.7	32.6	13.5	679	10.3	2,337	-	50

BSW- Black Sidewall

...Continued from previous page

| Ecsta V70A | Crugen HP91 | Solus KL21 | Crugen HT51 | Crugen Premium KL33 | 121 | 131 |

Model	Model Year	Product Code	Tire Size	Pattern ID	Service Desc.	Const.	Sidewall	UTQG	Rim Width Range (in.)	Section Width on Measured Rim Width (in.)	Diam. (in.)	Tire Weight (lbs.)	Static Loaded Radius (in.)	RPM	Tread Depth (1/32")	Max Load Single (lbs.)	Max Load Double (lbs.)	Max Air (psi)
TEMPORARY SPARE TIRES																		
HYUNDAI																		
Elantra	2011-2020	5003273	T125/80D15	121	95M	-	BSW	420 AA/A	3.0- 4.0	-	23.4	8.2	11.2	853	4.5	1,521	-	60
Sonata	14-Pres	5007943	T135/80D17	131	103M	-	BSW	420 AA/A	3.5- 4.5	-	25.8	11.7	12.2	775	4.5	1,929	-	60
Santa Fe	18-20	1758613	T165/90R17	121	116M	-	BSW	420 AA/A	4.0- 5.5	-	28.9	16.3	13.4	718	4.5	2,756	-	60
KIA																		
Genesis Coupe	13-16	5005273	T135/90D17	121	104M	-	BSW	420 AA/A	3.5- 4.5	-	26.7	12.8	13.1	748	4.5	1,984	-	60
Veloster	11-17	5003213	T125/80D16	121	97M	-	BSW	420 AA/A	3.0- 4.0	-	24.4	8.8	11.6	818	4.5	1,609	-	60
Veloster	11-17	5003273	T125/80D15	121	95M	-	BSW	420 AA/A	3.0- 4.0	-	23.4	8.2	11.2	853	5.0	1,521	-	60
Rio	2011-2017	5003273	T125/80D15	121	95M	-	BSW	420 AA/A	3.0- 4.0	-	23.4	8.2	11.2	853	5.0	1,521	-	60
Sedona	2014-2020	1763413	T135/90R17	121	104M	-	BSW	420 AA/A	3.5- 4.5	-	26.5	13.3	12.3	753	4.5	1,984	-	60
NISSAN																		
Telluride	2019-Pres	2204323	T155/90R18	131	113M	-	BSW	420 AA/A	4.0- 5.0	-	29.0	17.6	14.5	712	2.5	2,535	-	60
Sorento	2014-2020	1758613	T165/90R17	121	116M	-	BSW	420 AA/A	4.0- 5.5	-	28.9	16.3	13.4	718	4.5	2,756	-	60
GENESIS																		
Rogue	2014-2020	5008233	T145/90D16	131	106M	-	BSW	420 AA/A	3.5- 5.0	-	26.5	12.3	12.7	754	4.5	2,094	-	60
Rogue	2014-2020	5008243	T155/90D17	131	101M	-	BSW	420 AA/A	4.0- 5.0	-	28.3	14.7	13.5	707	4.5	1,819	-	60
G70	2017-Pres	2100333	T135/80R18	121	104M	-	BSW	420 AA/A	3.5- 4.5	-	26.5	13.2	12.9	761	4.5	1,984	-	60
G80	2016-Pres	2158963	T135/70R19	131	105M	-	BSW	420 AA/A	3.5- 4.5	-	26.5	12.8	13.0	754	5.0	2,039	-	60
Genesis GV80	2019-Pres	2259233	T175/80R19	131	122M	-	BSW	420 AA/A	4.5- 6.0	-	30.0	19.4	15.0	680	4.5	3,086	-	60

BSW- Black Sidewall

TECHNICAL DATA

TECHNICAL SERVICE BULLETIN

IMPORTANCE OF LOAD INDEX WHEN PLUS SIZING

The continued expansion of the plus sizing trend for light truck tires and especially sport utility vehicles (SUVs) created more demand for larger and larger tire sizes. Plus-size changeovers require that the new tire and wheel being placed on the vehicle must have sufficient load carrying capacity to support the maximum load of the vehicle. The new ECSTA STX 305/40/22 114V has a rated maximum load capacity of 2,601 lbs. at 50 psi (cold) of air pressure. This information can be found stamped on both sidewalls of the tire. When mounting in a light truck application, pickup truck and/or SUV, the rated maximum load capacity of the tire MUST BE REDUCED BY dividing the maximum load capacity of the tire by 1.1. The maximum load capacity of the ECSTA 305/40/22 114V on a light truck vehicle is 2,364 lbs. 2,601/1.1, at 50 psi (cold).

It is extremely important that the ECSTA STX 305/40/22 114V not be mounted on vehicles where the maximum vehicle load exceeds the maximum load capacity of the tire. Under no circumstances may the ECSTA STX 304/40/22 114V be mounted in any application where the rated maximum load exceeds 2,601 lbs. (cold) per tire.

To determine the maximum load capacity of a light truck vehicle, the following procedure should be followed:

1. **Determine the gross axle weight rating of the vehicle, GAWF (front) and GAWR (rear).**
   This information can be obtained from the vehicle's certification label found in the glove box or on the inside of the driver's door.

2. **Divide the LARGER value of GAWF or GAWR by 2.**
   This gives you the maximum load on that particular axle per tire.

3. **Determine the maximum load as marked on the sidewall of the tire.**
   For passenger tires used on a light truck vehicle, the maximum load listed on the sidewall must be reduced by dividing by 1.1.

4. **Compare the load calculated in step #3 to the load calculated in step #2.**

5. **The tire load calculated in step #3 must exceed the axle load calculated in step #2.**
   If the tire load capacity in step #3 is lower than the axle load in step #2, the tire cannot be used on that vehicle.

KEEP Using the 2003 Cadillac Escalade as an example, the process is as follows:

1. **GAWR = 4,000 lbs. (heaviest axle)**
2. **4,000 lbs./2 = 2,000 lbs. tire load**
3. **Rated load for the Ecsta STX 305/40R22 114V is 2,601 lbs.**
   2,601/1.1 = 2,364 lbs.
4. **The 2,364 lbs. tire load exceeds the 2,000 lbs. load of the vehicle**

Therefore, the Ecsta STX 305/40R22 114V can be applied to the 2003 Cadillac Escalade.

Recommendations concerning fitment and recommended air pressure can be obtained by contacting the Kumho Technical Service extension at 1-800-HI-KUMHO (445-8646).

114 LOAD INDEX

bar	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
kg	695	735	770	805	840	875	910	945	980	1,015	1,050	1,080	1,115	1,145	1,180
psi	22	24	25	26	28	29	31	32	34	35	36	38	40	41	42-50
lbs.	1,532	1,620	1,697	1,774	1,851	1,929	2,006	2,083	2,160	2,237	2,314	2,380	2,458	2,524	2,601
Light Truck lbs.	1,392	1,472	1,542	1,612	1,682	1,753	1,823	1,893	1,963	2,033	2,103	2,163	2,234	2,294	2,364

Maximum inflation pressure is 50 psi without an increase in load.

TECHNICAL SERVICE BULLETIN

PROPER FITMENT

PASSENGER

PRODUCT	CRUGEN HP71 (CUV, SUV)
DESIGN	
FEATURES	The Crugen HP71 grants a top-tier luxurious feel and quiet ride to match today's CUVs and SUVs. The Crugen HP71 is an ideal match for those looking for a high level of performance and longevity. With Kumho's state of the art technology, no matter the season or the weather, you will feel confident on the road.
PROBLEM	* Not designed for Pick-Up and Light Truck applications. * Increasing speed ratings can result in wandering conditions due to increased performance characteristics of the tire.
REMARK	*Improper Fitment Example: - Vehicle: 2018 Dodge Ram 1500 - OE Tire Specs: 275/60R20 114S - HP71 Specs: 275/60R20 115H - Complaint: Unstable handling while driving

LIGHT TRUCK

PRODUCT	ROAD VENTURE AT52	ROAD VENTURE MT51	ROAD VENTURE MT71	CRUGEN HT51
DESIGN				
FEATURES	Our AT and MT lines are designed for customers looking for an aggressive all-terrain tire that is able to deliver performance on and off the road. These surprising quiet tires with their durable tread designs will keep you rolling when you need it most.			
PROBLEM	* AT and MT tread designs are not ideal for towing applications due to the open lug patter. Use of AT or MT design in a towing application can lead to a reduction in tire life due to the excess torque during towing which will put more stress on tread blocks.			
REMARK	* A continuous ribbed design like our HT51 would provide the proper support needed in a towing application.			

TECHNICAL DATA

FUNCTIONS OF A TIRE

Any tire that is mounted on any vehicle has four basic functions.

Function #1: The tire supports the vehicle by holding air.
The air inside a tire is what supports a vehicle's load, not the tire itself. The tire's structure is made to contain the air that supports the weight of the vehicle.

Function #2: The tire maintains and changes vehicle direction.
The four tires, specifically the four postcard-sized patches of rubber that are in contact with the road surface, are what enable a driver to control the vehicle at any given moment. Changing or maintaining the direction of the vehicle is only possible because of the tires.

Function #3: The tire transmits braking and acceleration forces to the road.

Function #4: The tire absorbs shock from the road surface.
As a vehicle rolls over road surface irregularities, the tires constantly flex up and down, changing shape. The tires isolate the wheels from these irregularities and work with the vehicle's suspension to absorb shock.

DOT SERIAL NUMBER

The DOT serial number indicates that the tire is certified by the manufacturer to meet or exceed the standards of the United States Department of Transportation. Federal law provides that tire dealers can record the DOT identification numbers along with the tire buyer's name and address.

DOT H2YO274TCO 3807
"3807" is the code that indicates the date of manufacturing. The first two digits represent the week and the last two, the year.

UTQG: UNIFORM TIRE QUALITY GRADING

The Uniform Tire Quality Grading, or UTQG information, appears on the sidewall of every tire and is required by the United States Department of Transportation. This information system indicates the relative tread wear, traction and temperature resistance performance of tires used in the United States. The tread wear grade is a comparative rating based on the wear rate of the tire when tested in a controlled environment.

A tire graded 400 should wear twice as well as a tire graded 200 in that environment. Comparisons tend to be more accurate when comparing tires of similar performance. Therefore, ultra-high performance tires should be compared to other ultra-high performance tires, touring tires to touring tires, and so forth.

Traction grades range from AA — the highest — through C — the lowest standard. They represent a tire's ability to stop on wet asphalt and concrete. Wet traction testing is done under straight-line braking conditions. Temperature grades, also from highest to lowest, are A, B and C, with C being the minimum DOT standard. They represent a tire's resistance to heat at high speeds and are relative to speed ratings.

TIRE SIZE/LOAD INDEX/SPEED RATING

This combination of numbers and letters designates a tire's size, load index and speed rating. This particular code is an example of the ISO-metric sizing system.

TIRE SIZE: SIZE MEASUREMENT/PROFILE/ASPECT RATIO

225/45R17

1. **225**- This three-digit size measurement indicates, in millimeters, the section width of a new tire with normal sidewalls, but not including protective side ribs, bars or decorations. The width measurement is assumed to be on the "design rim" as specified by the Tire and Rim Association (TRA)(USA) or the European Tyre and Rim Technical Organization (ETRTO)(EU).

2. **45**- This two-digit number is a percentage amount that indicates a tire profile — the ratio of a tire's section width to its section height. The profile is also referred to as a "series," as in "a 45-series tire." In this example, the tire's profile is 45% of the 225-millimeter section width.

   Long ago, 100-series tires were common, meaning the width and height were equal. Today, tires are wider — with aspect ratios between 25 and 80 — because wider tires improve a vehicle's cornering and overall handling performance.

3. **R**- The R stands for "radial," referring to the tire's radial-ply construction, which is the industry standard. Radial describes a pneumatic or inflatable tire structure in which the ply cords extend to the beads and are laid at 90 degrees to the centerline of the tread. The casing of a radial tire is stabilized by the circumferential steel belt package.

4. **17**- This two-digit number is the diameter of the rim, measured in inches. This tire has a rim diameter of 17 inches. Note that the measurement of a tire's rim diameter should always match the measurement of the wheel it is mounted on. There should be no variation, even by one-half inch. The practice of mounting tires on mismatched wheels is extremely dangerous and should not be attempted.

LOAD INDEX

1. The load index is a numerical code associated with the maximum weight one tire can carry at the speed indicated by its speed rating and its maximum inflation pressure. (The alphabetical speed rating appears immediately after the load index.)

TECHNICAL DATA

2. Three factors determine the load index of a tire: the size of the air chamber between the tire and wheel, the strength provided by the tire's ability to hold air pressure and the actual amount of air pressure in the tire.

195/55R15 85V

3. **85**- The higher the tire's load index, the greater its loadcarrying capacity. For example, a load index of 85 means that the fully-inflated tire in good condition can carry 1,135 lbs. The normal load index range for passenger car tires and light trucks is between 80 and 128.

   Note that many tire models offer certain sizes with an "extra load" designation. This higher number indicates that the tire features extra reinforcement to increase the overall load capacity.

4. It's important to determine a customer's driving needs with regard to what is needed for a load capacity. An SUV used to take children back and forth to school will not require the same load-indexed tire as an SUV that's used for hauling or other industrial purposes. That knowledge will help your customers refine their choice of a tire that's right for their driving style — and their lifestyle.

5. The chart shows the range of load capabilities from 761 lbs. to 3,690 lbs. and the corresponding load indexes.

TRA (P-METRIC) LOAD CARRYING CAPACITY

Tire Size	kPa psi	180	200	220	240	250	Load Index
		26	29	32	35	36	
P235/50R17 P-Metric	kg	600	635	665	690		95
	lbs.	1,323	1,400	1,466	1,521		

Tire load limits at various cold inflation pressures.

SPEED RATING

1. The speed rating indicates the maximum speed at which a tire can perform while carrying a load corresponding to its load index. A speed rating is based on tests performed on a tire in a controlled indoor environment, at a moderate temperature, with proper inflation, running straight without camber.

2. A tire's designated usage dictates its speed rating. Q ratings are common for off-road tires. Traditional passenger/touring tires are often S and T rated, while Z ratings are typical for performance tires. The most common ratings are S, T, H, V and Z.

3. A rating of Z was originally used to indicate a tire with a maximum performance capability of more than 149 mph. The W and Y ratings were established later, when higher speed vehicle and tire capabilities became more widely available.

4. Tires with a maximum speed capability of 186 mph have their service description presented as 275/40ZR17 93Y. Tires with a speed performance capability in excess of 186 mph are indicated by the service description presented in parentheses.

5. (275/40ZR17 (93Y)*)
   It's important for you to know that even though the tire industry refers to this quality indicator as a "speed rating," often in practical application a sale can be compromised due to this somewhat misleading term. That's why, as you educate your customers about Kumho products, it's critical that you make them understand the difference between "speed rating" and "performance."

6. As with nearly all tire manufacturers, Kumho designs its tires with full knowledge of the speed rating and takes steps to ensure the handling capabilities are matched to it. Therefore, a speed rating is correlated to performance. However, speed ratings do not sanction operation beyond what is permissible by law. Even in unrestricted environments, safety awareness, proper equipment and training is required for safe operation.

7. It's just as important to make your customers aware that a speed rating applies only to the tire, not to the vehicle on which the tire is mounted. However, it's important to equal or exceed the vehicle's OEM tire speed rating to preserve proper vehicle handling. Customers often resist the price of higher speed-rated tires because, as they often comment, "I don't drive that fast." However, tire specifications are an important component of the engineering that goes into a modern automotive chassis. Installing replacement tires that equal or exceed the specifications of the original equipment tires is critical in helping the vehicle maintain its maneuverability in emergency situations.

8. The chart offers you the complete range of speed ratings at a glance.

   (See next page.)

TECHNICAL DATA

SPEED SYMBOLS/RATINGS

Speed Symbol	Speed (km/h)	Speed (mph)	ZR*
A1	5		
A2	10		
A3	15		
A4	20		
A5	25		
A6	30		
A7	35		
A8	40		
B	50		
C	60		
D	65		
E	70		
F	80	50	
G	90	55	
J	100	62	
K	110	68	
L	120	75	
M	130	81	
N	140	87	
P	150	93	
Q	160	99	
R	170	106	
S	180	112	
T	190	118	
U	200	124	
H	210	130	
V	240	149	
W	270	168	ZR
Y	300	186	ZR
Above 300 km/h		186+	ZR

*For tires with a maximum speed capability above 240 km/h (149 mph), a "ZR" may appear in the size designation. For tires having a maximum speed capability above 300 km/h (186 mph), a "ZR" must appear in the size designation and a Service Description, including the Y Speed Symbol, must be included in brackets.

Example:

Tire Size	Speed
P275/40ZR17	240 km/h (149 mph)
P275/40ZR17 93Y	300 km/h (186 mph)
P275/40ZR17 93Y	300 km/h (186 mph)
P275/40ZR17 (93Y)	Above 300 km/h (186 mph)

TIRE SIZING, LOAD AND INFLATION STANDARDS

Tire load inflation tables for passenger cars and light truck vehicles are based on numerous standards put forth by organizations including The European Tyre and Rim Technical Organization (ETRTO) (EU), The Tire and Rim Association (TRA) (USA) and The Japan Automotive Tyre Manufacturers Association (JATMA).

TIRE SIZING SYSTEMS

Not all tire sizing systems are alike. While the ISO-metric sizing designation is the most commonly used system in the United States, there are a total of nine used in the industry.

NUMERIC SYSTEM

8.25 – 16

The first system developed for sizing provided the nominal section width of a tire — 8.25 inches in this example — and its rim diameter — 16 inches. The numeric system is still used today to measure some smaller tires, including those used for trailers.

ALPHA-NUMERIC SYSTEM

B78 – 13

With this system, a tire's load-bearing capacity, construction type, aspect ratio and rim diameter could be determined at a glance. The first letter is the load rating, ranging from "A" to "N." The closer the letter is to the end of the alphabet, the larger the tire size and the higher the load capacity. The "R" was added to the system later to denote radial belt construction. The center two-digit number introduced the aspect ratio for the first time, while the last two digits indicated the rim diameter.

METRIC SYSTEM

225/45R17

The metric system is the most common tire sizing system in use around the world. It is in essence a conversion of the old numeric system with a tire's section width measured in millimeters instead of inches. The components of the metric sizing system include the section width, the aspect ratio, the internal construction type — in this example, "radial" — and the rim diameter. In this system all the basic dimensions can be identified from the size.

MILLIMETRIC SYSTEM

235-710R460

The millimetric sizing system is the same as the basic metric system, with one difference: like the cross-section width, the rim diameter is also measured in millimeters. It's important to always mount a millimetric tire on a millimetric rim. A millimetric tire will not seat correctly at the bead on an inchsized rim designation, creating a safety hazard.

P-METRIC SYSTEM

P235/75R15

In order to have a more descriptive sizing system, the P-metric system was created. It is identical to the metric system except for the first letter. The "P" was added to indicate "passenger tire." For light trucks, the letters "LT" were added. In most cases, a metric tire can be substituted for a P-metric tire and vice versa. For example, a P195/75R14 tire is interchangeable with a 195/75R14. On low aspect ratio tires of 45 series or less, check the actual load index of the tire to confirm its suitability for the application.

TECHNICAL DATA

ISO METRIC SYSTEM

235/45R17 94H

The ISO metric sizing system, developed by the International Standards Organization, adds an extra service description to the basic metric sizing system, providing two more valuable pieces of information to the customer: the tire's load index and speed rating. They are shown following the rim diameter measurement. In this example, the tire's load index is 94, which translates to a 1,477-pound capacity and its speed rating is H, which means it is certified for extended performance up to 130 mph.

LIGHT TRUCK NUMERIC SYSTEM

7.50R16LT D

Like the basic numeric system for cars, the light truck numeric sizing system shows the internal construction as well as the section width and rim diameter in inches, but with the addition of the tire's designation for light truck use (LT). The letter "D" at the end of the size coding represents the load range of the tire.

LIGHT TRUCK HIGH FLOTATION SYSTEM

31X10.50R15LT C

The light truck high flotation sizing system is identical to the light truck numeric system, with the overall diameter, section width and rim diameter each measured in inches, but with the addition of the diameter of the full tire added to the beginning. The letter "C" represents the load range of the tire.

LIGHT TRUCK METRIC SYSTEM

LT265/75R16 C

The light truck metric system is similar to the P-metric system for passenger cars, except here the "P" prefix is replaced with the "LT" — Light Truck — designation. This indicates that the tire is suitable for the typically heavier loads of light truck usage. The letter "C" represents the load range of the tire.

P-METRIC VS. ISO METRIC (METRIC OR HARD METRIC)

Understanding the differences between P-metric and ISO metric is important in recommending the correct inflation pressure value. The TRA developed the P-metric and ETRTO developed ISO metric, or hard metric systems. As an example, a P235/50R17 95H can carry a maximum load of 1,521 lbs. @ 35 psi while 235/50R17 96W has a maximum load carrying capacity of 1,566 lbs. @ 36 psi. Tires with the same load index may carry the same load, however, there are exceptions. These exceptions will need different inflation values.

TRA VS. ETRTO (P-METRIC VS. ISO METRIC LOAD CARRYING CAPACITY)

Tire Size	kPa psi	180 26	200 29	220 32	240 35	250 36	Load Index
P235/50R17 P-metric	kg	600	635	665	690		95
	lbs.	1,323	1,400	1,466	1,521		
235/50R17 ISO-metric	kg	545	595	640	685	710	96
	lbs.	1,202	1,312	1,312	1,411	1,566	

COLD INFLATION PRESSURE

One question that is often asked is, "When should I check my tire pressures?" Your tires should be checked when they are cold. The ideal situation is when a vehicle has been parked overnight. If this is not possible, the following parameters need to be followed: check tire pressures when the vehicle has been driven less than one mile; or after a trip, allow a three-hour cool-down period before the check.
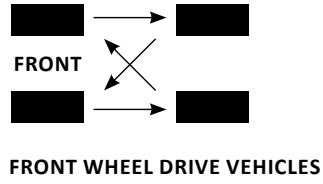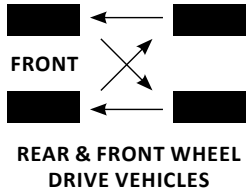
PRESSURE UNIT CONVERSION TABLE

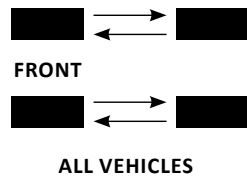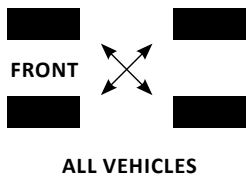| kPa	bar	psi	kg/cm²
100	1.0	15	1.0
150	1.5	22	1.5
200	2.0	29	2.0
250	2.5	36	2.6
300	3.0	44	3.1
350	3.5	51	3.6
400	4.0	58	4.1
450	4.5	65	4.6
500	5.0	73	5.1
550	5.5	80	5.6
600	6.0	87	6.1
650	6.5	94	6.6
700	7.0	102	7.1
750	7.5	109	7.7
800	8.0	116	8.2
850	8.5	123	8.7
900	9.0	131	9.2
950	9.5	138	9.7
1,000	10.0	145	10.2
1,050	10.5	152	10.7

TECHNICAL DATA

TIRE ROTATION CHART

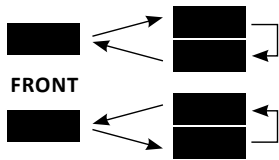**Only where tires are the same type and size**

Preferred rotation patterns

FRONT

REAR & FRONT WHEEL DRIVE VEHICLES

FRONT

FRONT WHEEL DRIVE VEHICLES

Alternate rotation patterns

FRONT

ALL VEHICLES

FRONT

ALL VEHICLES

Dual wheel rotation patterns

FRONT

FRONT
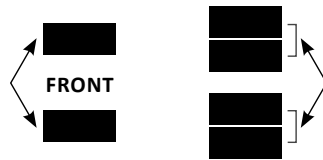
Unidirectional rotation patterns

FRONT

5-WHEEL

FRONT

4-WHEEL
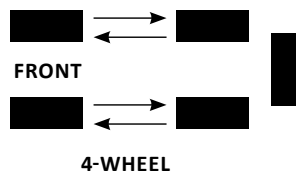
TECHNICAL DATA

TIRE LOAD INDEX CHART   The maximum load a tire can carry at various cold inflation pressures

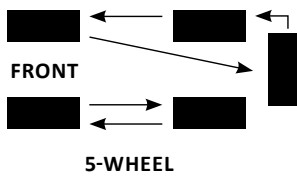| Load Index	kg	lbs.	Load Index	kg	lbs.	Load Index	kg	lbs.	Load Index	kg	lbs.
70	335	740	96	710	1,565	122	1,500	3,305	148	3,150	6,940
71	345	760	97	730	1,610	123	1,550	3,415	149	3,250	7,160
72	355	785	98	750	1,655	124	1,600	3,525	150	3,350	7,390
73	365	805	99	775	1,710	125	1,650	3,640	151	3,450	7,610
74	375	825	100	800	1,765	126	1,700	3,750	152	3,550	7,830
75	387	855	101	825	1,820	127	1,750	3,860	153	3,650	8,050
76	400	880	102	850	1,875	128	1,800	3,970	154	3,750	8,270
77	412	910	103	875	1,930	129	1,850	4,080	155	3,875	8,540
78	425	935	104	900	1,985	130	1,900	4,190	156	4,000	8,820
79	437	965	105	925	2,010	131	1,950	4,300	157	4,125	9,090
80	450	990	106	950	2,095	132	2,000	4,410	158	4,250	9,370
81	462	1,020	107	975	2,150	133	2,060	4,540	159	4,375	9,650
82	475	1,045	108	1,000	2,205	134	2,120	4,675	160	4,500	9,920
83	487	1,075	109	1,030	2,270	135	2,180	4,805	161	4,625	10,200
84	500	1,100	110	1,060	2,335	136	2,240	4,940	162	4,750	10,500
85	515	1,135	111	1,090	2,405	137	2,300	5,070	163	4,875	10,700
86	530	1,170	112	1,120	2,470	138	2,360	5,205	164	5,000	11,000
87	545	1,200	113	1,150	2,535	139	2,430	5,355	165	5,150	11,400
88	560	1,235	114	1,180	2,600	140	2,500	5,510	166	5,300	11,700
89	580	1,280	115	1,215	2,680	141	2,575	5,675	167	5,450	12,000
90	600	1,325	116	1,250	2,755	142	2,650	5,840	168	5,600	12,300
91	615	1,355	117	1,285	2,835	143	2,725	6,005	169	5,800	12,800
92	630	1,390	118	1,320	2,910	144	2,800	6,175	170	6,000	13,200
93	650	1,435	119	1,360	3,000	145	2,900	6,395			
94	670	1,475	120	1,400	3,085	146	3,000	6,610			
95	690	1,520	121	1,450	3,195	147	3,075	6,780			

Selection of Load Index numbers — select the Load Index number with the equivalent load of the tire (round up at mid-point). If the tire maximum load rating is only given in customary units, convert that load to kilograms and then select the closest Load Index equivalent (kg) load. (Data received from TRA.)

KUMHO TIRE

All-Ways, Go With you

REPLACEMENT & ORIGINAL EQUIPMENT WARRANTY POLICIES

REPLACEMENT EQUIPMENT WARRANTY POLICIES

KUMHO CONSUMER WARRANTY FOR PASSENGER AND LIGHT TRUCK TIRES KUMHO LIMITED WARRANTY

Congratulations! You have just purchased high quality tires from Kumho Tire U.S.A. Inc.! This limited warranty covers the Kumho Tire passenger and light truck tires.

I. WHAT IS WARRANTED AND WHO IS ELIGIBLE UNDER THIS WARRANTY

Kumho Tire U.S.A. Inc, 133 Peachtree St NE, Suite 2800, Atlanta, GA 30303, warrants to the original consumer purchaser that all Kumho Tire replacement radial tires either directly or through an authorized KUMHO dealer, and which are mounted on vehicles within the U.S.A., and become unserviceable for any reason within the manufacturers control, such tire will be replaced with an equivalent KUMHO tire or one that KUMHO approves. This warranty only applies if the following requirements are met:

∫   The tire is the size, load rating, and speed rating that the vehicle manufacturer states

∫   The tire has not become unserviceable due to any condition listed under WHAT IS NOT COVERED BY THE WARRANTY

∫   This limited warranty applies only to the original purchase and is non-tramsferable

WHAT IS COVERED BY THE WARRANTY AND HOW LONG

Should any passenger or light truck tire manufactured by Kumho Tire U.S.A. Inc. covered by this warranty become unserviceable due to a material or workmanship condition during its useable tread life (more than 2/32" remaining tread) and before 6 years from the date the tire was manufactured or purchase date supported with proof of purchase, KUMHO will do either of the following:

A.   During the first 2/32" of the original usable tread, Kumho Tire will replace such tire with a comparable new Kumho tire free of charge. Applicable taxes on the new tire and costs of mounting and balancing and any other service charges are required to be paid by the owner.

B.   After the first 2/32" of the original usable tread, a credit percentage will be given toward the purchase price of a comparable new Kumho tire effective at the time of adjustment. Applicable taxes on the new tire and costs of mounting and balancing service are required to be paid by the owner.

   To obtain the credit percentage, please refer to the Adjustment Credit Percentage Table or utilize the following example:

   Measurements are calculated in 32nds of an inch
   R.T.D.: Remaining Tread Depth
   O.T.D.: Original Tread Depth

   If R.T.D. = 5/32" and O.T.D. = 10/32", the calculation would be:

   (5/32" − 2/32" : remaining usable tread depth) ÷
   (10/32" − 2/32" : original useable tread depth) = 38%

REPLACEMENT EQUIPMENT WARRANTY POLICIES

ADJUSTMENT CREDIT PERCENTAGE Percentage Kumho Tire pays based on Remaining Tread Depth

RTD (Remaining Tread Depth)*	OTD (Original Tread Depth)*																								
	8/32"	9/32"	10/32"	11/32"	12/32"	13/32"	14/32"	15/32"	16/32"	17/32"	18/32"	19/32"	20/32"	21/32"	22/32"	23/32"	24/32"	25/32"	26/32"	27/32"	28/32"	29/32"	30/32"	31/32"	32/32"
2/32"	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3/32"	17%	14%	13%	11%	10%	9%	8%	8%	7%	7%	6%	6%	6%	5%	5%	5%	5%	4%	%	4%	4%	4%	4%	3%	3%
4/32"	33%	29%	25%	22%	20%	18%	17%	15%	14%	13%	13%	12%	11%	11%	10%	10%	9%	9%	8%	8%	8%	7%	7%	7%	7%
5/32"	50%	43%	38%	33%	30%	27%	25%	23%	21%	20%	19%	18%	17%	16%	15%	14%	14%	13%	13%	12%	12%	11%	11%	10%	10%
6/32"	100%	57%	50%	44%	40%	36%	33%	31%	29%	27%	25%	24%	22%	21%	20%	19%	18%	17%	17%	16%	15%	15%	14%	14%	13%
7/32"	100%	100%	63%	56%	50%	45%	42%	38%	36%	33%	31%	29%	28%	26%	25%	24%	23%	22%	21%	20%	19%	19%	18%	17%	17%
8/32"	100%	100%	100%	67%	60%	55%	50%	46%	43%	40%	38%	35%	33%	32%	30%	29%	27%	26%	25%	24%	23%	22%	21%	21%	20%
9/32"		100%	100%	100%	70%	64%	58%	54%	50%	47%	44%	41%	39%	37%	35%	33%	32%	30%	29%	28%	27%	26%	25%	24%	23%
10/32"			100%	100%	100%	73%	67%	62%	57%	53%	50%	47%	44%	42%	40%	38%	36%	35%	33%	32%	31%	30%	29%	28%	27%
11/32"				100%	100%	100%	75%	69%	64%	60%	56%	53%	50%	47%	45%	43%	41%	39%	38%	36%	35%	33%	32%	31%	30%
12/32"					100%	100%	100%	77%	71%	67%	63%	59%	56%	53%	50%	48%	45%	43%	42%	40%	38%	37%	36%	34%	33%
13/32"						100%	100%	100%	79%	73%	69%	65%	61%	58%	55%	52%	50%	48%	46%	44%	42%	41%	39%	38%	37%
14/32"							100%	100%	100%	80%	75%	71%	67%	63%	60%	57%	55%	52%	50%	48%	46%	44%	43%	41%	40%
15/32"								100%	100%	100%	81%	76%	72%	68%	65%	62%	59%	57%	54%	52%	50%	48%	46%	45%	43%
16/32"									100%	100%	100%	82%	78%	74%	70%	67%	64%	61%	58%	56%	54%	52%	50%	48%	47%
17/32"										100%	100%	100%	83%	79%	75%	71%	68%	65%	63%	60%	58%	56%	54%	52%	50%
18/32"											100%	100%	100%	84%	80%	76%	73%	70%	67%	64%	62%	59%	57%	55%	53%
19/32"												100%	100%	100%	85%	81%	77%	74%	71%	68%	65%	63%	61%	59%	57%
20/32"													100%	100%	100%	86%	82%	78%	75%	72%	69%	67%	64%	62%	60%
21/32"														100%	100%	100%	86%	83%	79%	76%	73%	70%	68%	66%	63%
22/32"															100%	100%	100%	87%	83%	80%	77%	74%	71%	69%	67%
23/32"																100%	100%	100%	88%	84%	81%	78%	75%	72%	70%
24/32"																	100%	100%	100%	88%	85%	81%	79%	76%	73%
25/32"																		100%	100%	100%	88%	85%	82%	79%	77%
26/32"																			100%	100%	100%	89%	86%	83%	80%
27/32"																				100%	100%	100%	89%	86%	83%
28/32"																					100%	100%	100%	90%	87%
29/32"																						100%	100%	100%	90%
30/32"																							100%	100%	100%
31/32"																								100%	100%
32/32"																									100%

*Measurements are in inches.

REPLACEMENT EQUIPMENT WARRANTY POLICIES

C. **TEMPORARY SPARE TIRE**
During the first 1/32" of the original usable tread, Kumho Tire will replace such temporary tire with a comparable new Kumho temporary tire free of charge. After the first 1/32" of the original usable tread, but less than 2/32", a credit of 50% towards a comparable new Kumho temporary tire will be given. Applicable taxes and costs of mounting and balancing and any other service charges are payable by the owner.

D. Adjustment on ride complaint or out-of-round is allowed only during the first 2/32" of the original tread depth or 1 year from purchase date (proof of purchase required) whichever comes first.

The authorized Kumho Tire dealer will determine the adjustment cost by multiplying the percentage of the original usable tread worn by the current Kumho Tire dealer's price list in effect at the time of adjustment.

WHAT IS NOT COVERED BY THE WARRANTY

A. This limited warranty is applicable only in the United States, and any tires used or equipped on a vehicle registered or operated outside the U.S. are not covered by this warranty.

B. Any tire branded or marked "Non-Adjustable" (NA) or Blemished (BLEM) or DOT/Serial numbers previously cut or buffed will not be adjusted.

C. Any tire worn beyond the wear bars (less than 2/32" remaining tread).

D. The cost of applicable taxes and mounting and balancing and any other service charges.

E. Tire damage or irregular wear due to:

- Road hazard, including puncture, cut, impact break, bulge, snag, stone drill, collision.

- Continued use while flat or driven with acute under-inflation.

- Improper use or operation, without limitation, improper inflation pressure, overloading, use of an improper rim, tire/wheel assembly imbalance, worn suspension components, improper mounting or de-mounting, misuse, misapplication, fire or other externally generated heat, water or other material trapped inside the tire during mounting, tire alteration, racing or competition purposes, improper inserting of sealant, balance or filler materials.

- Improper repair, or with repairs not conforming to the U.S. Tire Manufacturers Association standards, or with section repairs, or with self-vulcanizing plug only.

- Failure rotate tires in accordance to their vehicle owner's manual or if the vehicle manufacture's recommendation is not available, at least every 5,000 to 7,500 miles

- Uneven or rapid wear which is caused by mechanical irregularity in the vehicle such as misalignment, (a measured tread difference of 2/32" or more across the tread on the same tire).

F. Ozone or weather cracking on tires over four (4) years from the date of manufacture.

G. Any tire that has been recapped, retreaded, and/or re-grooved.

H. Ride disturbance (out-of-round, vibration, pulling, etc.) claims submitted after the first 2/32" of tread wear and claims over two (2) tires per vehicle.

I. Loss of time, or use, inconvenience, or any incidental or consequential damage.

J. Tires that have been modified by the addition or removal of material or any tire intentionally altered to change its appearance.

K. Tires unserviceability caused by the tire operation in excess of tire/wheel manufacturers specifications and recommendations.

L. Tires that have become unserviceable because chemical corrosion, vandalism, chains and flat spotting.

M. This limited warranty applies only to the original purchaser and is non-transferable.

OWNER'S OBLIGATION

A. Present the tire and original purchase receipt to any authorized Kumho Tire dealer in the continental USA.

B. Pay the amounts due on a new tire, less the amount of credit (if issued), including taxes, mounting and balancing charges and/or the cost of other services ordered.

To locate an authorized Kumho Tire dealer, please use our web address: http://www.KumhoTireUSA.com/dealer

OTHER RIGHTS

This Limited Warranty gives you specific legal rights; you may also have other rights, which vary from state to state.

NEW TIRE D.O.T. (DEPARTMENT OF TRANSPORTATION) REGISTRATION

It is important that you properly register your tire(s) D.O.T. codes promptly after purchase. Tire D.O.T. registration is an important safety procedure as it allows the manufacturer to notify you in the event of a recall. To complete registration, you will need to provide:

1. Your contact information

2. The tire D.O.T. codes located on the side of the tire(s)

3. Your dealer's contact information (where you purchased the tires from)

Please use the registration form available from Kumho Tire at: https://www.kumhotire.com/us/global/tire/tireBasics/write.do

REPLACEMENT EQUIPMENT WARRANTY POLICIES

II. LIMITED TREAD WEAR WARRANTY

Mileage Coverage	Pattern	Remark
75,000 MILES	SOLUS TA11, SOLUS TA51a (T)	
70,000 MILES	CRUGEN HT51	P-Metric
65,000 MILES	CRUGEN HP71, SOLUS TA51a (H/V)	
60,000 MILES	SOLUS TA71, SOLUS TA31, SOLUS KL21, CRUGEN PREMIUM (KL33)	
55,000 MILES	ROAD VENTURE AT52	P-Metric
50,000 MILES	ROAD VENTURE AT52	LT-Metric
50,000 MILES	ECSTA PA31	
45,000 MILES	CRUGEN HT51	LT-Metric (Excluding Commercial Line)
45,000 MILES	ECSTA PA51	
40,000 MILES	4X II (KU22-II)	

Neither Kumho Tire nor any other tire manufacturer, can guarantee you'll receive a certain number of miles from any given tire. Driving habits, driving conditions, road conditions and vehicle maintenance all play a vital role in the tread life of a tire. However, if a tire does not reach the warranted mileage, and the original owner of the tires has complied with the terms and conditions of the Limited Tread Wear Warranty, Kumho Tire will do the following;

A. If tread has worn down to the tread wear indicators (2/32" tread depth) within 6 years (72 months) from the date of purchase or does not deliver the warranted miles of normal passenger use, whichever comes first, Kumho Tire will make an allowance for unused service towards a comparable new tire, pro-rated on warranted miles.

B. The replacement allowance will be calculated by percentage of the warranted miles not received multiplied by the authorized Kumho Tire dealer's current price of the tire at the time of the adjustment.

- For original equipment tires on new vehicles, please refer to the warranty brochure in your vehicle's glove box for Kumho Tire's O.E. Consumer Limited Warranty.

REPLACEMENT EQUIPMENT WARRANTY POLICIES

MILEAGE WARRANTY ADJUSTMENT Percentage Kumho Tire pays per original warranty mileage

Mileage up to	20k	40k	45k	50k	55k	60k	70k	75k	85k
1,000	95%	98%	98%	98%	98%	98%	99%	99%	99%
2,000	90%	95%	96%	96%	96%	97%	97%	97%	98%
3,000	85%	93%	93%	94%	95%	95%	96%	96%	96%
4,000	80%	90%	91%	92%	93%	93%	94%	95%	95%
5,000	75%	88%	89%	90%	91%	92%	93%	93%	94%
6,000	70%	85%	87%	88%	89%	90%	91%	92%	93%
7,000	65%	83%	84%	86%	87%	88%	90%	91%	92%
8,000	60%	80%	82%	84%	85%	87%	89%	89%	91%
9,000	55%	78%	80%	82%	84%	85%	87%	88%	89%
10,000	50%	75%	78%	80%	82%	83%	86%	87%	88%
11,000	45%	73%	76%	78%	80%	82%	84%	85%	87%
12,000	40%	70%	73%	76%	78%	80%	83%	84%	86%
13,000	35%	68%	71%	74%	76%	78%	81%	83%	85%
14,000	30%	65%	69%	72%	75%	77%	80%	81%	84%
15,000	25%	63%	67%	70%	73%	75%	79%	80%	8%2
16,000	20%	60%	64%	68%	71%	73%	77%	79%	81%
17,000	15%	58%	62%	66%	69%	72%	76%	77%	80%
18,000	10%	55%	60%	64%	67%	70%	74%	76%	79%
19,000	5%	53%	58%	62%	65%	68%	73%	75%	78%
20,000	0%	50%	56%	60%	64%	67%	71%	73%	76%
21,000		48%	53%	58%	62%	65%	70%	72%	75%
22,000		45%	51%	56%	60%	63%	69%	71%	74%
23,000		43%	49%	54%	58%	62%	67%	69%	73%
24,000		40%	47%	52%	56%	60%	66%	68%	72%
25,000		38%	44%	50%	55%	58%	64%	67%	71%
26,000		35%	42%	48%	53%	57%	63%	65%	69%
27,000		33%	40%	46%	51%	55%	61%	64%	68%
28,000		30%	38%	44%	49%	53%	60%	63%	67%
29,000		28%	36%	42%	47%	52%	59%	61%	66%
30,000		25%	33%	40%	45%	50%	57%	60%	65%

Mileage up to	40k	45k	50k	55k	60k	70k	75k	85k
31,000	23%	31%	38%	44%	48%	56%	59%	64%
32,000	20%	29%	36%	42%	47%	54%	57%	62%
33,000	18%	27%	34%	40%	45%	53%	56%	61%
34,000	15%	24%	32%	38%	43%	51%	55%	60%
35,000	13%	22%	30%	36%	42%	50%	53%	59%
36,000	10%	20%	28%	35%	40%	49%	52%	58%
37,000	8%	18%	26%	33%	38%	47%	51%	56%
38,000	5%	16%	24%	31%	37%	46%	49%	55%
39,000	3%	13%	22%	29%	35%	44%	48%	54%
40,000	0%	11%	20%	27%	33%	43%	47%	53%
41,000		9%	18%	25%	32%	41%	45%	52%
42,000		7%	16%	24%	30%	40%	44%	51%
43,000		4%	14%	22%	28%	39%	43%	49%
44,000		2%	12%	20%	27%	37%	41%	48%
45,000		0%	10%	18%	2%	36%	4%	47%
46,000			8%	16%	23%	34%	39%	46%
47,000			6%	15%	22%	33%	37%	45%
48,000			4%	13%	20%	31%	36%	44%
49,000			2%	11%	18%	30%	35%	42%
50,000			0%	9%	17%	29%	33%	41%
51,000				7%	15%	27%	32%	40%
52,000				5%	13%	26%	31%	39%
53,000				4%	12%	24%	29%	38%
54,000				2%	10%	23%	28%	36%
55,000				0%	8%	21%	27%	35%
56,000					7%	20%	25%	34%
57,000					5%	19%	24%	33%
58,000					3%	17%	23%	32%
59,000					2%	16%	21%	31%
60,000					0%	14%	20%	29%

Mileage up to	70k	75k	85k
61,000	13%	19%	28%
62,000	11%	17%	27%
63,000	10%	16%	26%
64,000	9%	15%	25%
65,000	7%	13%	24%
66,000	6%	12%	22%
67,000	4%	11%	21%
68,000	3%	9%	20%
69,000	1%	8%	19%
70,000	0%	7%	18%
71,000		5%	16%
72,000		4%	15%
73,000		3%	14%
74,000		1%	13%
75,000		0%	12%
76,000			11%
77,000			9%
78,000			8%
79,000			7%
80,000			6%
81,000			5%
82,000			4%
83,000			2%
84,000			1%
85,000			0%

REPLACEMENT EQUIPMENT WARRANTY POLICIES

ELIGIBILITY FOR LIMITED TREAD WEAR WARRANTY

A. To make a claim, the owner must present the invoice from when the tires were originally installed, and all records of all tire maintenance performed to an authorized Kumho Tire dealer.

B. This limited tread wear warranty applies only to the original owner and is non-transferable.

C. Applicable taxes and costs of mounting and balancing and any other service charges are to be paid by the owner.

D. Owners must rotate tires in accordance to their vehicle owner's manual or if the vehicle manufacture's recommendation is not available, at least every 5,000- 7,500 miles.

E. The following are exclusions to the Limited Tread Wear Warranty:

   • Tires branded "NA", "BLEM", etc.

   • Tires exhibiting uneven or rapid wear which is caused by mechanical irregularity in the vehicle such as misalignment, (a measured tread difference of 2/32" or more across the tread on the same tire).

   • Tires worn-out or damaged due to: lack of tire rotation, improper inflation, improper mounting, uneven wear, overloading, off-road driving, racing, accident, fire, chemicals, use on RV or commercial vehicle, vandalism, abuse, defective mechanical condition of vehicle, or road hazard damage (e.g., irreparable cut, puncture, snag, bruise, or impact break).

   • Original equipment tires on new vehicles.

F. For staggered/split fitment applications, different size tires on the front and rear axles. Kumho Tire will cover half the number of miles of the standard mileage warranty since these tires cannot be rotated as recommended by KUMHO.

III. ROAD HAZARD PROTECTION

Every ECSTA PA51, ECSTA PS31, ECSTA PS91, ECSTA 4XII (KU22), SOLUS TA71, SOLUS TA51a, SOLUS TA31, SOLUS TA11, CRUGEN HT51, CRUGEN HP71, and ROAD VENTURE AT52 steel belted radial passenger tire that has been irreparably damaged due to a normal road hazard conditions (e.g., irreparable cut, puncture, snag, bruise, or impact break), within the first 2/32" of the original tread depth (O.T.D.) and within 1 year (12 months) from the date of purchase, will be replaced free of charge with an equivalent KUMHO tire. To be eligible, you must present your original invoice showing date of purchase. Tires not within 2/32" of the O.T.D. will not be issued a pro-rated credit. Any tires sent in under Road Hazard that reflect damage due to continued driving while flat or acute under-inflation are not eligible and are excluded. Tires that exhibit mechanical irregularity in the vehicle such as misalignment, (a measured tread difference of 2/32" or more across the tread on the same tire) will be excluded.

IV. 30-DAY SATISFACTION GUARANTEED TRIAL WARRANTY

Kumho Tire's 30-Day Satisfaction Guaranteed Trial Warranty covers a complete set of four (4) ROAD VENTURE MT71, ROAD VENTURE AT52, ECSTA PA51, ECSTA PS91, SOLUS TA51a, CRUGEN HP71 tires in which all four tires were purchased and installed on vehicle matching invoice. If for whatever reason you aren't completely satisfied with your eligible tires, simply return them to the dealer where they were purchased to receive the full amount originally paid for the tires only. Installation and other service charges are not included.

LIMITATIONS AND REQUIREMENTS

A. This trial warranty only applies to the original purchaser of a set of four eligible (4) tires returned with 30 days from the date of purchase and is non –transferable; any return of less than a full set of tires will not be accepted. Original purchaser must present their original sales receipt/invoice to their selling dealer, and a completed copy of the 30 day satisfaction survey, at the time of replacement

B. Tires must be returned undamaged. Tires exhibiting road hazard, mounting damage, continued use while flat or driven with acute under-inflation, vehicle mechanical-related problems, repairs, improper inflation, vandalism, racing, or any tires removed from the original vehicle are excluded from this trial warranty.

C. Original purchaser pays the amounts due on a new replacement tire, less the amount of credit (if issued), including applicable taxes, mounting and balancing charges and/or the cost of other services ordered.

D. Tires measuring more than 1/32" of tread wear from original tread depth are excluded from trial warranty.

V. REPLACEMENT OF TWO TIRES / ROTATION RECOMMENDATION

A. Kumho Tire recommends replacing all four tires at the same time. However, if only two tires are being replaced, Kumho Tire generally recommends the two new tires should be installed on the rear axle. The new tires with deeper tread will provide better grip and water evacuation in wet driving conditions, which can assist in the prevention of an accident.

B. Owners must continue to rotate tires in accordance to their vehicle owner's manual or recommendation of a tire service professional. If the tires have a non-directional tread pattern, side to side rotations are recommended if all four tires cannot be rotated with the vehicle's regular rotation pattern.

VI. REPLACEMENT WARRANTY

If you receive a replacement tire under this warranty, it will be covered by the manufacturer's warranty and the supplemental limited mileage warranty that Kumho Tire provides on that tire.

REPLACEMENT EQUIPMENT WARRANTY POLICIES

THIS IS THE ONLY EXPRESS WARRANTY GIVEN BY KUMHO APPLICABLE TO KUMHO REPLACEMENT TIRES. KUMHO DOES NOT MAKE ANY OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

KUMHO DOES NOT AUTHORIZE ANY OTHER PERSONS, INCLUDING AUTHORIZED DEALERS TO CHANGE THIS WARRANTY OR CREATE ANY OTHER OBLIGATION IN CONNECTION WITH KUMHO TIRES. KUMHO WILL NOT DO ANYTHING OTHER THAN WHAT IS STATED IN THIS WARRANTY IF A DEFECT IS FOUND TO EXIST IN A KUMHO REPLACEMENT RADIAL TIRE. ALL OTHER REMEDIES ARE EXCLUDED, INCLUDING ANY OBLIGATION OR LIABILITY ON THE PART OF KUMHO FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES SUCH AS LOSS OF USE OF CAR, LOSS OF TIME OR INCONVENIENCES ARISING OUT.

THE REMEDIES SET FORTH IN THIS LIMITED WARRANTY ARE THE SOLE AND EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT MAY VARY FROM STATE TO STATE.

SAFETY WARNINGS

Property damage, serious personal injury or death may result if any of the following safety precautions/recommendations are not followed:

Driving on any underinflated tire is dangerous and may result in sudden tire destruction caused by excessive heat build-up. For replacement tires, your tire retailer should provide you with the proper inflation pressure. Otherwise, follow the air pressure recommendation found within your vehicle's owner manual or tire placard in your vehicle. If your replacement tire size is different from the original equipment tire size, ask your tire retailer for a revised air pressure recommendation guide in order to adequately support your vehicle's GVWR.

- Check the cold inflation pressure in all of your tires, including the spare tire, at least once every month and always prior to long distance trips. Failure to maintain the proper air inflation pressure may result in improper vehicle handling and may cause rapid and irregular tire wear, reduction in tire durability, loss of vehicle control, or sudden tire failure that may lead to property damage, serious personal injury or death.

- Use an accurate tire gauge to check tire air pressures. Always maintain the proper recommended air inflation pressure in all tires. If there is an indication that one of your tires has lost four or more pounds of air pressure, immediately look for signs of penetration through the tire, valve leaks or wheel damage that may account for the air loss. You should also have your tires inspected by a tire retailer immediately.

- Air pressure should be checked when tires are cold (before they have been driven), ideally in the early morning. Driving, regardless of distance, causes tires to heat up and simultaneously increase air pressure.

- Never exceed the maximum inflation pressure for the tire.

- Never bleed air from hot tires as this may result in under-inflation.

Inspect your tires daily. If you notice any damage to your tires or wheels, replace them with a spare and immediately visit any tire retailer for advice. Driving over potholes, curbs, wood debris, metal, etc., can damage a tire and should be safely avoided. Contact with such hazards requires an immediate and thorough tire inspection by your tire retailer.

- Always examine your tires for penetrations, bulges, cracks, cuts, and abnormal wear — particularly at the tire edges — which may be caused by, for example, vehicle misalignment or tire under inflation. Failure to properly control a vehicle when one or more tires are underinflated may result in an accident. Use of a damaged tire may result in rapid air loss, including sudden tire failure.

- An explosion of the tire/rim assembly may occur due to improper mounting. Only specially trained persons should mount tires.

Failure to store tires in accordance with the following recommendations may result in damage to your tires, reduction in tire durability, or sudden tire failure:

- Tires should always be stored in a cool, dry, clean, indoor environment. Tires contain waxes and emollients to protect their outer surfaces from ozone and weather cracking. As the tire rolls and flexes, the waxes and emollients continually migrate to the tire's surface, replenishing this protection throughout the normal and proper use of the tire. However, when tires sit outdoors and are unused for an extended period of time, the tire surface becomes dry and may be susceptible to ozone and weather cracking, and the casing becomes susceptible to flat spotting.

- Surfaces on which tires are stored must be free from grease, gasoline, and other substances that could deteriorate the rubber.

- You should have a qualified technician check all tires when the Kumho Tire warranty policy period has lapsed, even if damage is not obvious.

Do not overload your tires. Driving on any overloaded tire is extremely dangerous and may result in an accident causing property damage, serious personal injury or death.

- The maximum load rating marked on the sidewall of any tire is based on the maximum speed of operation. Tires that are loaded beyond their maximum allowable loads for a particular application will generate increased and excessive heat that may cause sudden tire failure leading to property damage, serious personal injury or death.

ORIGINAL EQUIPMENT WARRANTY POLICIES

CONSUMER LIMITED WARRANTY FOR ORIGINAL EQUIPMENT PASSENGER & LIGHT TRUCK TIRES INCLUDING TEMPORARY TIRES

I. WHAT IS COVERED AND FOR HOW LONG

Kumho warrants that a tire manufactured by Kumho and/ or equipped originally on the vehicle is free from defects in materials and/or workmanship in normal use for the life of the original usable tread. The life of the original usable tread ends when the tire tread has been worn down with only 2/32" (1.6 mm) remaining, at which point the tire is considered to be fully worn out.

PASSENGER AND LIGHT TRUCK TIRES

A. **FREE REPLACEMENT**
   If a Kumho Radial Passenger or Light Truck tire fails as a result of defect in materials and/or workmanship within the first 2/32" of the original tread depth, the tire will be replaced with a new, comparable Kumho tire at no charge including mounting and balancing charges.

B. **PRO-RATA REPLACEMENT**
   A tire not qualifying for free replacement will be given a credit toward the purchase of a new, comparable Kumho tire based upon the amount of tread actually worn. The cost of mounting, balancing and any other service charges or applicable taxes should be paid by the user. Otherwise adjustment for compensation will be made on a pro-rata basis calculated by multiplying the actual current dealer selling price by the percentage of remaining usable tread depth.

KUMHO TEMPORARY TIRE

A. A Temporary Tire weighs less and provides more trunk storage space than a conventional tire. To conserve tire tread life, the temporary tire should be returned to the trunk as soon as it is convenient to have your standard tire repaired or replaced.

B. If a Kumho Temporary Tire fails as a result of defect in materials and/or workmanship during the first 50% of usable tread wear, the tire will be replaced with a new, comparable tire at no charge including mounting and balancing charges. No adjustment will be made for tires that are worn more than 50%.

II. WHAT IS NOT COVERED BY THE WARRANTY

NON-ADJUSTABLE CONDITIONS

A. Irregular wear or tire damage due to:

   1. Road hazards such as punctures, cuts, snags, scuffs, carcass bruised or impact breaks.

   2. Fire, wreck, vandalism or collision.

   3. Improper inflation, overloading, high-speed spinning, improper mounting or demounting, running flat, off-road use, racing, vandalism, willful damage or abuse.

   4. Misalignment, wheel imbalance, defective brakes or shock absorbers, or use of tire chains.

   5. Any tire which has failed as a result of adding material (e.g., tire fillers, sealant, or balancing substances).

B. Tire fitted to anything other than the original vehicle.

C. Tire worn beyond tread wear indicator (2/32" or 1.6 mm tread remaining).

D. Tire presented by other than the actual owner-user.

E. Tire branded "NA" (meaning non-adjustable) or "blem" (meaning blemished).

F. Loss of time inconvenience, loss of use of the vehicle or consequential damage.

G. Ride disturbance after free-replacement conditions and more than two (2) tires per vehicle for ride disturbance and tires worn past the first 2/32nds of an inch of original tread.

H. Ozone or weather cracking on tires over four (4) years from the date of manufacture.

I. No Flat Spot Warranty for Original tires.

J. No Mileage Warranty for Original tires.

K. This limited warranty applies only to the original vehicle owner and is non-transferable.

GENERAL EXCLUSIONS

A. No Kumho Tire employee, retailer or dealer has the authority to make any warranty, representation, promise or agreement on behalf of Kumho Tire except as stated in this policy.

B. Tires used in racing-related activities or competitive events are not covered by this warranty.

C. Limitation of remedy: To the extent permitted by law, Kumho disclaims liability for all consequential and incidental damages. Some provinces and states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have rights which vary from province to province in Canada, and from state to state in the United States.

ORIGINAL EQUIPMENT WARRANTY POLICIES

III. KUMHO OBLIGATIONS

Replacement tires qualifying under this warranty will be made by a participating Kumho Dealer or a participating Car Dealer.

IV. OWNER'S OBLIGATIONS

A. Conform to all pertaining policies detailed herein.

B. Present tire to any authorized Kumho dealer or a participating Car Dealer along with proof indicating you are the original vehicle owner. Respective dealer will inspect tire in order to identify whether or not it qualifies for warranty based on the policies detailed herein.

C. To locate an authorized Kumho dealer, use our web address KumhoUSA.com/Dealer or call 1-800-HI-KUMHO (445-8646).

WARNING FOR YOUR SAFETY

A. **TIRE DEMOUNTING AND MOUNTING**

   Improper tire mounting and inflation procedures may cause tire beads to break with explosive force during installation of the tire on the rim, causing personal injury and property damage. Follow the Rubber Manufacturers Association (RMA) installation and safety procedure for mounting and inflating tires. Tire and rim must match in size. Rim parts must match in size. Rim parts must match by manufacturer's design. Clean rim. Lubricate rim and beads. Do not exceed the maximum recommended pressure to seat beads on rim. Use remote control inflation equipment and inflation cage.

   Note: Never inflate over 40 psi to seat beads. Mount radialply tires only on rims designated by wheel manufacturer as suitable for radial tires. Only specially trained persons shall mount tires.

B. **AIR PRESSURE**

   Check the pressure in your tires, including your spare, at least monthly, and always before and during extended driving, when tires are cold (at least 3 hours after the vehicle has been stopped and before it is driven more than 1 mile/1.6 km). Do not reduce pressure when tires are hot: use an accurate air pressure gauge to check pressure and maintain it at the level recommended on the vehicle tire placard or in the owner's manual. Underinflation produces extreme flexing of sidewalls and builds up heat to the point that premature tire failure may occur. Overinflation can cause the tires to be more susceptible to impact damage. Cold tire pressures, however, should never be higher than the limit molded on the sidewall.

C. **LOAD LIMITS**

   Never exceed the load-carrying limits molded onto the sidewall of your tires or the maximum vehicle load limit as shown on the vehicle tire placard, whichever is less. Overloading builds up excessive heat in the tire and leads to early and/or sudden failure.

D. **HAZARDS**

   Avoid running over objects (e.g., chuckholes, rocks, curbs, metal, glass, etc.) which may possibly cause internal tire damage. Continued use of a tire that has suffered internal damage, which may not be externally visible, can lead to dangerous tire failure. Determination of suspected internal damage requires demounting the tire from its rim and examination by trained personnel.

E. **WORN TIRES**

   Never drive on worn tires. Tires should be replaced by trained personnel when 2/32" (1.6 mm) of remaining tread depth, as indicated by tread wear indicators molded into the tread grooves. Use of worn-out tires (less than 2/32" remaining tread depth) increases the possibility of tire failure. In most states, it is illegal to drive with less than 2/32" of remaining tread depth.

F. **SPEED LIMITS**

   Operating your vehicle in excess of lawful speed limits or the maximum speeds justified by driving conditions can be dangerous. Excessive speed creates heat buildup in a tire, leading to possible tire failure.

G. **SPEED-RATED TIRES**

   Speed-rated tires are identified by letters P, Q, S, T, H, V, W or Z as either part of the size designation (e.g., HR) or part of the service description adjacent to the size designation (e.g., 94H) and indicate the maximum speed capability of the tire when properly loaded and inflated. However, even when properly loaded and inflated, driving for prolonged periods at high speeds can cause tire damage and possible tire failure which could lead to an accident. Original equipment speed-rated tires must be replaced with tires of the same or higher speed rating if the speed capability of the vehicle is to be maintained. Consult your Kumho dealer for the tires best suited to your vehicle driving habits. Repair of speedrated tires must be done in accordance with RMA repair procedures and is limited to one 1/3 diameter repair in the tread area.

H. **TIRE ROTATION**

   Rotate your tires for longer tire life. Front and rear tires perform different jobs and wear differently. Consult your vehicle owner's manual for mileage recommendations and rotation patterns.

ORIGINAL EQUIPMENT WARRANTY POLICIES

ADDITIONAL SAFETY INFORMATION FOR TEMPORARY TIRE

A. AIR PRESSURE

Check inflation pressure as soon as possible after installation and inflate to 60 psi. The tire pressure should be checked monthly and maintained at 60 psi while the tire is stored or in service.

B. VEHICLE RESTRICTION

The temporary spare tire was specifically designed for your car and should not be used on any other vehicle.

C. OTHER RESTRICTIONS

The temporary spare tire should not be used with other wheels, nor should standard tires, snow tires, wheel covers, or trim rings be used with the temporary spare wheel. If such use is attempted, damage to these items or other vehicle components may occur.

NOTES

NOTES