

Product Catalog





Achilles
RADIAL



Exported to more than 70 countries across Europe, Middle East, Asia, Africa, United States, Canada and Australia



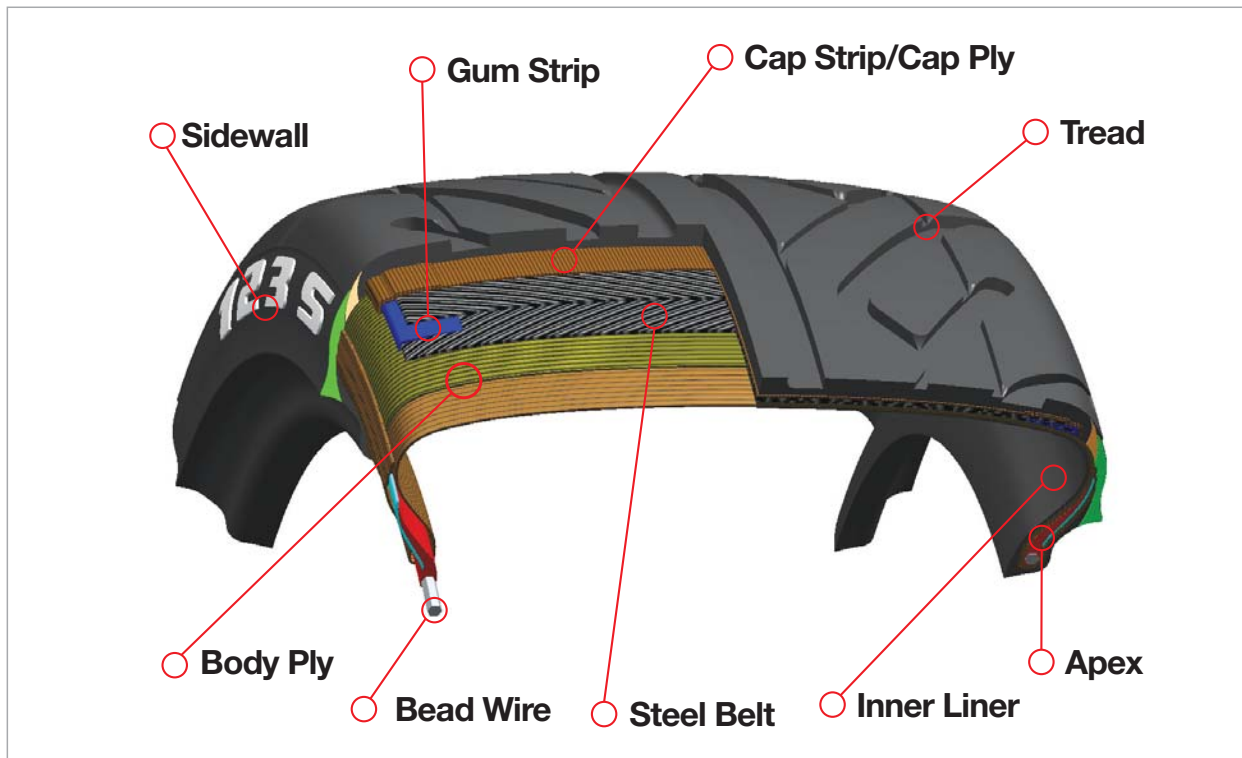
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RADIAL TIRE CONSTRUCTION AND FUNCTIONS



○ Sidewall

Protecting body ply (carcass) on the side of the tire and also functioning as a place for putting important information about the tire.

○ Gum Strip

Special rubber put on steel belt edge functioning as shock absorber of steel belt thread tip.

○ Cap Strip / Cap Ply

Any textile thread with a 0 angle layered by rubber. Utilized for twisting belt so that the steel belt will not change its angle and diameter due to centrifugal force when the tire is used at high speed.

Function:

- to improve tire performance at high speed

○ Tread

Tread is main part of the tire directly contacting road surface. It defines tire life, provides tire appearance, and creates good traction on wet roads.

○ Apex

Apex is in a triangle in couple with beads and they have different function:

- Handling and stability
- Blank space filler at body ply fold.

○ Inner Liner

One part of tire located at inner part, functioning as substitute to tire tube and made of mixed airtight rubber.

○ Steel Belt

A steel belt liner that has been laminated by rubber and arranged by intersection. Belt provides tire reinforcement and it has more stable and flexible physical characters.

Its functions as:

- Body ply holder for obtaining tread so that it can step on road perfectly.
- Strengthening body ply (carcass) so that it will always be able to defend its round from of road construction

○ Bead Wire

Its form is carbon steel wire layered with hard rubber and then formed as proper circle in layers.

Its functions:

- body ply lock to attach to rim.

○ Body Ply (Carcass)

Body ply is main part of tire in the form of layered sheet consisting of polyester or nylon or wire thread with rubber liner. Functions of body ply are as follows:

- Tire frame.
- To hold tire pressure.
- To absorb vibration of road.

TIRE SIZE



205 / 75 R 15 98 H XL

205	Nominal Section Width (mm)
75	Aspect Ratio (Series)
R	Radial Construction
15	Rim Diameter
98	Load Index (750kg)
H	Speed Index (210 km/h)
XL	Extra Load



245 / 75 R 15 C 120/116 L

245	Nominal Section Width (mm)
75	Aspect Ratio (Series)
R	Radial Construction
15	Rim Diameter
C	Load Range (6PR)
120/116	Load Index (Single/Dual = 1,400kg/1,250kg)
L	Speed Index (120 km/h)



31 x 10.50 R 15 109 Q

31	Overall Diameter (inch)
10.50	Nominal Section Width (inch)
R	Radial
15	Rim Diameter
109	Load Index (1,030kg)
Q	Speed Index (160km)



19 / 57 - 15

19	Nominal Section Width (cm)
57	Overall Diameter
15	Rim Diameter

TREAD PATTERN OF TIRE



Asymmetrical Tread Pattern

Good stability & wet handling

Asymmetrical tire design has a different tread pattern between the outside and inside section. It aims to keep the stability of the tire balance. These designs give excellent maneuvering; with better noise level than high performance tires.



Directional Symmetrical Tread Pattern

**Better grip on wet roads,
good cornering at speed on a dry**

Symmetrical tires with rotation have the same tread pattern between outside and inside sections. The symmetrical shape of tires clearly can be seen on rotation. The rotation direction can be seen on the side of the tire. These designs give excellent performance on wet roads. Do not install a symmetrical tire upside down, forcing this installment would endanger the driver when the car is used on wet roads.



Non-Directional Rotation Symmetrical Tread Pattern

Low noise, tire rotation

Symmetrical tire designs have a simmilliar tread pattern in between outside and inside sections. It makes it easier and more flexible for the driver when handling the vehicle.

SPEED SYMBOL AND SPEED LIMIT TABLE

SPEED SYMBOL	SPEED (Km/h)	SPEED SYMBOL	SPEED (Km/h)	SPEED SYMBOL	SPEED (Km/h)
A1	5	D	65	Q	160
A2	10	E	70	R	170
A3	15	F	80	S	180
A4	20	G	90	T	190
A5	25	J	100	U	200
A6	30	K	110	H	210
A7	35	L	120	V	240
A8	40	M	130	W	270
B	50	N	140	Y	300
C	60	P	150		

LOAD INDEX AND LOAD CAPACITY TABLE

LOAD INDEX	Kg	LOAD INDEX	Kg	LOAD INDEX	Kg	LOAD INDEX	Kg
71	345	81	462	91	615	101	825
72	355	82	475	92	630	102	850
73	365	83	487	93	650	103	875
74	375	84	500	94	670	104	900
75	387	85	515	95	690	105	925
76	400	86	530	96	710	106	950
77	412	87	545	97	730	107	975
78	425	88	560	98	750	108	1,000
79	437	89	580	99	775	109	1,030
80	450	90	600	100	800	110	1,060

ATR SPORT



2233



PLATINUM



PLATINUM 7



122



ATR-K





Passenger Car Radial (PCR)

ATR SPORT



Features & Benefits

- » **Silica tread compound**
Improved fuel efficiency and wet traction
- » **3D surface block technology**
Reduced road noise for a more comfortable ride

ATR SPORT



The **Achilles ATR SPORT** is an Ultra High Performance Summer tire designed to complement the performance of sports cars, sports coupes and sport sedans. Developed to provide good traction along with responsive and predictable dry and wet road handling. It is not suitable for near-freezing temperatures, through snow or on ice.

Achilles ATR SPORT features a high-grip tread compound molded into a directional tread design. A continuous center rib, large tread blocks and stable shoulder elements, provide responsive handling, high-speed stability and traction on dry roads. While circumferential and lateral, tread grooves aimed to pump water out from under the tire's footprint to minimize hydroplaning and aids wet traction. The tire's internal structure includes twin steel belts reinforced by spiral-wrapped nylon to stabilize the tread area, enhance handling, high-speed capability and ride quality. The fabric cord body and hard rubber sidewall filler helps blend uniform ride quality with steering response and lateral stability.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
175/60 R15 81H	177	591	7.5	5J, 5½J , 6J
195/60 R15 88V	201	615	8.1	5½J, 6J , 6½J, 7J
185/55 R15 82V	194	585	8.2	5J, 5½J, 6J , 6½J
195/55 R15 85V	201	595	8.1	5½J, 6J , 6½J, 7J
195/50 R15 82V	194	585	8.1	5½J, 6J , 6½J, 7J
215/60 R16 95V	221	664	8.3	6J, 6½J , 7J, 7½J
215/60 R16 95H	221	664	8.3	6J, 6½J , 7J, 7½J
195/55 R16 87V	201	620	8.1	5½J, 6J , 6½J, 7J
205/55 R16 91V	214	632	8.2	5½J, 6J, 6½J , 7J, 7½J
205/55 ZR16 94W XL	214	632	8.2	5½J, 6J, 6½J , 7J, 7½J
215/55 ZR16 97W XL	226	642	8.4	6J, 6½J, 7J , 7½J
225/55 R16 99V XL	233	654	8.2	6J, 6½J, 7J , 7½J, 8J
225/55 ZR16 99W XL	233	654	8.2	6J, 6½J, 7J , 7½J, 8J
215/55 ZR17 98W XL	226	668	8.3	6J, 6½J, 7J , 7½J
215/55 ZR17 94W	226	668	8.3	6J, 6½J, 7J , 7½J
225/55 ZR17 101W XL	233	680	8.2	6J, 6½J, 7J , 7½J, 8J
195/50 R16 84V	201	602	8.1	5½J, 6J , 6½J, 7J
205/50 R16 87V	214	612	8.2	5½J, 6J, 6½J , 7J, 7½J
225/50 R16 96V XL	233	632	8.1	6J, 6½J, 7J , 7½J, 8J
205/50 ZR17 93W XL	214	638	8.3	5½J, 6J, 6½J , 7J, 7½J
215/50 ZR17 95W XL	226	648	8.2	6J, 6½J, 7J , 7½J
225/50 ZR17 98W XL	233	658	8.2	6J, 6½J, 7J , 7½J, 8J
195/45 R16 84V XL	195	582	8.1	6J, 6½J , 7J, 7½J
205/45 R16 87V XL	206	590	8.0	6½J, 7J , 7½J
205/45 ZR17 88W XL	206	616	7.7	6½J, 7J , 7½J
215/45 ZR17 91W XL	213	626	8.1	7J , 7½J, 8J
225/45 ZR17 94W XL	225	634	8.1	7J, 7½J , 8J, 8½J
235/45 ZR17 97W XL	236	644	7.8	7½J, 8J , 8½J, 9J
245/45 ZR17 99W XL	243	652	8.2	7½J, 8J , 8½J, 9J
225/45 ZR18 95W XL	225	659	8.2	7J, 7½J , 8J, 8½J
245/45 ZR18 100W XL	243	677	8.3	7½J, 8J , 8½J, 9J

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
205/40 ZR17 84W XL	212	596	8.0	7J, 7½J , 8J
255/40 ZR17 98W XL	260	636	7.9	8½J, 9J , 9½J, 10J
215/40 ZR18 89W XL	218	629	8.2	7J, 7½J , 8J, 8½J
225/40 ZR18 92W XL	230	637	8.1	7½J, 8J , 8½J, 9J
235/40 ZR18 95W XL	241	645	7.8	8J, 8½J , 9J, 9½J
245/40 ZR18 97W XL	248	653	8.2	8J, 8½J , 9J, 9½J
245/40 ZR19 98W XL	248	679	8.2	8J, 8½J , 9J, 9½J
215/35 ZR18 84W XL	218	607	7.9	7J, 7½J , 8J, 8½J
265/35 ZR18 97W XL	271	643	8.2	9J, 9½J , 10J, 10½J
225/35 ZR19 88W XL	230	641	8.1	7½J, 8J , 8½J, 9J
235/35 ZR19 91W XL	241	647	7.8	8J, 8½J , 9J, 9½J
245/35 ZR19 93W XL	248	655	8.2	8J, 8½J , 9J, 9½J
225/35 ZR20 90W XL	230	666	8.1	7½J, 8J , 8½J, 9J
225/35 ZR20 93W XL	230	666	8.1	7½J, 8J , 8½J, 9J
245/35 ZR20 95W XL	248	680	8.2	8J, 8½J , 9J, 9½J
255/35 ZR20 97W XL	260	686	8.1	8½J, 9J , 9½J, 10J
265/30 ZR19 93W XL	271	643	8.1	9J, 9½J , 10J
275/30 ZR19 96W XL	278	649	7.9	9J, 9½J , 10J
225/30 ZR20 85W XL	230	644	8.1	8J
235/30 ZR20 88W XL	242	650	7.8	8½J
245/30 ZR20 90W XL	241	650	8.2	8J, 8½J , 9J
245/30 ZR20 93W XL	241	650	8.2	8J, 8½J , 9J
275/30 ZR20 97W XL	278	674	7.9	9J, 9½J , 10J

2233



Features & Benefits

» **Broad tread shoulder design and wide center rib**

Maintains stable contact during cornering and excellent straight-line stability

Asymmetrical tread pattern

Superb cornering stability and precision steering response

» **Stronger breaker and cap ply material**

Increase control of the centrifugal force and stability at high speed

» **Wider ribs with water channeling at shoulder**

Reduced hydroplaning and better grip during wet braking

2233



The **2233** features tread compound technology molded into an asymmetric design that enhances steering response and precision. While the tire's continuous ribs provide the circumferential stiffness to transmit drive and breaking forces. The continuous circumferential tread grooves between ribs help disperse water to resist hydroplaning. This allows the tire to become wider during breaking to help secure short stopping distances. The 2233 features twin steel belts reinforced by nylon to stabilize the tread area and enhances handling as well as high-speed capability.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
225/60 R16 102H XL	228	676	8.2	6J, 6½J , 7J, 7½J, 8J
225/60 R16 102V XL	228	676	8.2	6J, 6½J , 7J, 7½J, 8J
185/55 R16 83V	194	610	8.2	5J, 5½J, 6J , 6½J
205/55 ZR16 94W XL	214	632	8.1	5½J, 6J, 6½J , 7J, 7½J
205/55 R16 94H XL	214	632	8.1	5½J, 6J, 6½J , 7J, 7½J
215/55 R16 97H XL	226	642	8.2	6J, 6½J, 7J , 7½J
215/55 ZR16 97W XL	226	642	8.2	6J, 6½J, 7J , 7½J
225/55 ZR16 99W XL	233	654	8.4	6J, 6½J, 7J , 7½J, 8J
215/55 ZR17 98W XL	226	668	7.8	6J, 6½J, 7J , 7½J
205/50 R16*				
205/50 R16 91H XL	214	612	7.9	5½J, 6J, 6½J , 7J, 7½J
215/50 ZR16 94W XL	226	622	8	6J, 6½J, 7J , 7½J
205/50 ZR17 93W XL	214	638	8.1	5½J, 6J, 6½J , 7J, 7½J
215/50 ZR17 95W XL	226	648	8.1	6J, 6½J, 7J , 7½J
225/50 R17*				
225/50 ZR17 98W XL	233	658	8.3	6J, 6½J, 7J , 7½J, 8J
205/45 ZR16 83W	206	590	7.9	6½J, 7J , 7½J
205/45 ZR17 88W XL	206	616	7.9	6½J, 7J , 7½J
215/45 ZR17 91W XL	213	626	8.1	7J , 7½J, 8J
225/45 ZR17 94W XL	225	634	8.2	7J, 7½J , 8J, 8½
245/45 ZR17 99W XL	243	652	8.3	7½J, 8J , 8½J, 9J
235/45 R17*				
235/45 ZR17 97W XL	236	644	7.8	7½J, 8J , 8½J, 9J
205/40 ZR17 84W XL	212	596	7.9	7J, 7½J , 8J
225/40 ZR18 92W XL	230	637	8.4	7½J, 8J , 8½J, 9J
235/40 ZR18 95W XL	241	645	7.8	8J, 8½J , 9J, 9½J
245/40 ZR18 97W XL	248	653	8.2	8J, 8½J , 9J, 9½J
265/35 ZR18 97W XL	271	643	8.1	9J, 9½J , 10J, 10½J
225/35 ZR19 88W XL	230	641	8.3	7½J, 8J , 8½J, 9J
235/35 ZR19 91W XL	241	647	7.8	8J, 8½J , 9J, 9½J
265/30 ZR19 93W XL	271	643	8.1	9J, 9½J , 10J
275/30 ZR19 93W XL	278	649	8.2	9J, 9½J , 10J
225/30 ZR20 85W XL	230	644	8.2	8J
235/30 ZR20 88W XL	242	650	8.1	8½J

* Under Development

PLATINUM



Features & Benefits

- » **Center block**
Perfect controlling on wet roads
- » **Twin groove**
Maximizing power of maneuvering
- » **Strong shoulder block**
Produces excellent power while cornering
- » **Rim guard protection**
Provides wheel damage protection
- » **Hydro straight**
Efficient water channeling from the straight groove in the middle to set the inner groove for inner drainage performance

PLATINUM



TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
175/70 R13 82H	177	576	7.5	4.50B, 4½J, 5.00B , 5J, 5.50B, 5½J, 6.00B, 6J
185/70 R13 86H	189	590	7.9	4.50B, 4½J, 5.00B, 5J, 5.50B , 5½J , 6.00B, 6J
185/70 R14 88H	189	616	7.9	4½J, 5J, 5½J , 6J
195/70 R14 91H	201	630	8.3	5J, 5½J, 6J , 6½J
175/65 R14 82H	177	584	7.5	5.00B , 5J , 5.50B, 5½J, 6J
185/65 R14 86H	189	596	8.3	5J, 5½J , 6J, 6½J
195/65 R14 89H	201	610	8.2	5½J, 6J , 6½J, 7J
185/65 R15 88H	189	621	8.2	5J, 5½J , 6J, 6½J
195/65 R15 91H	201	635	8.2	5½J, 6J , 6½J, 7J
195/65 R15 91V	201	635	8.2	5½J, 6J , 6½J, 7J
205/65 R15 94H	209	647	8.4	5½J, 6J , 6½J, 7J, 7½J
185/60 R14 82H	189	578	8.3	5J, 5½J , 6J, 6½J
195/60 R14 86H	201	590	7.9	5½J, 6J , 6½J, 7J
195/60 R15 88H	201	615	8.3	5½J, 6J , 6½J, 7J
205/60 R15 91H	209	627	8.2	5½J, 6J , 6½J, 7J, 7½J
195/60 R16 89H	201	640	8.2	5½J, 6J , 6½J, 7J
225/60 R16 98H	228	676	8.2	6J, 6½J , 7J, 7½J, 8J

PLATINUM 7



Features & Benefits

- » **The tread is designed with a center portion using broad straight groove**
For better hydroplaning on wet road conditions
- » **The lateral groove design**
Can reduce the generation of noise from the whole tire and curb the pattern noise
- » **Multi sipes design**
Reduced the rigidness of the tread and enhancing the driving comfort
- » **Deeper shoulder groove depth design**
Improves premature wear on the tire and enhances longevity of the tire life

PLATINUM 7



TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
165/80 R13 83H	165	594	7.5	4.00B, 4J, 4.50B , 4½J , 5.00B, 5J, 5.50B, 5½J
155/70 R13 75H	157	548	6.7	4.00B, 4J, 4.50B , 4½J , 5.00B, 5J
165/70 R13 79H	170	562	6.7	4.00B, 4J, 4.50B, 4½J, 5.00B , 5J , 5.50B, 5½J
165/65 R13 77H	170	544	7.3	4.50B, 4½J, 5.00B , 5J , 5.50B, 5½J, 6.00B, 6J
175/60 R13 77H	177	540	7.5	5.00B , 5J , 5.50B, 5½J, 6.00B, 6J

122



Features & Benefits

- » **Sipes in the mid crown block**
For better hydroplaning on wet road conditions
- » **Center rib and stiffer tread area**
For straight-line high-speed stability and dry breaking
- » **Extended water channeling to the center rib**
Optimized water evacuation and improve contact area.
This reduces hydroplaning.
- » **Rim guard protection**
Provides wheel damage protection

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TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
155/80 R13 79T	157	578	6.9	4.00B, 4J, 4.50B , 4½J , 5.00B, 5J
165/70 R13 79H	170	562	7.0	4.00B, 4J, 4.50B, 4½J, 5.00B , 5J , 5.50B, 5½J
175/70 R13 82H	177	576	7.6	4.50B, 4½J, 5.00B , 5J , 5.50B, 5½J, 6.00B, 6J
185/70 R13 86H	189	590	8.2	4.50B, 4½J, 5.00B, 5J, 5.50B , 5½J , 6.00B, 6J
185/70 R14 88H	189	616	8.0	4½J, 5J, 5½J , 6J
195/70 R14 91H	201	630	8.6	5J, 5½J, 6J , 6½J
175/65 R14 82H	177	584	7.8	5.00B , 5J , 5.50B, 5½J, 6J
185/65 R14 86H	189	596	8.6	5J, 5½J , 6J, 6½J
175/65 R15 84T	177	584	8.3	5J , 5½J, 6J
185/65 R15 88H	189	621	8.5	5J, 5½J , 6J, 6½J
195/65 R15 91H	201	635	8.5	5½J, 6J , 6½J, 7J
205/65 R15 94H	209	647	8.0	5½J, 6J , 6½J, 7J, 7½J
175/60 R13 77H	177	540	7.2	5.00B , 5J , 5.50B, 5½J, 6.00B, 6J
185/60 R13 80H	189	552	8.3	5.00B, 5J, 5.50B , 5½J , 6.00B, 6J, 6½J
185/60 R14 82H	189	578	8.6	5J, 5½J , 6J, 6½J
205/60 R14 88H	209	602	8.3	5½J, 6J , 6½J, 7J, 7½J
185/60 R15 88H	189	603	8.6	5J, 5½J , 6J, 6½J
195/60 R15 88H	201	615	8.6	5½J, 6J , 6½J, 7J
185/55 R16 83H	194	610	8.5	5J, 5½J, 6J , 6½J
195/50 R16 84V	201	602	8.4	5½J, 6J , 6½J, 7J

ATR-K



Features & Benefits

- » **Inside offset twin rib - sharp**
Smooth response and stability, excellent traction and breaking
- » **Two straight broader grooves**
To upgrade and enhance safety on wet ground, in order to achieve better hydroplaning
- » **Shoulder block with multiple edges and additional sipes**
Grip and breaking optimization and smooth rolling; excellent handling and comfort and noise improvement

ATR-K


The outside tread, tread shoulder uses a high-stiffness curved pattern design to increase the cornering force and enhance the steering ability. In addition, to get better drainage effectiveness, two straight broad grooves have been used in the design, as well as the sipes bars in the middle groove, which have been used to accumulate the water for better drainage efficiency and driving safety on wet ground.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
155/65 R14 75H XL	157	558	8.1	4½J
155/60 R15 75H XL	157	567	8.1	4½J
155/55 R14 75H XL	162	526	8.1	5J
165/55 R14 75V XL	180	526	8.1	6J
165/55 R15*				
175/55 R17*				
175/55 R15*				
165/50 R14 75V XL	180	525.5	8.0	5J
165/50 R15 75V XL	170	547	8.1	5J
185/50 R15*				
165/50 R16*				
165/45 R15 75V XL	175	526	8.1	6J
165/45 R16*				
165/45 R17*				
175/45 R18*				
165/40 R16 70V XL	170	538	8.0	6J
165/40 R17 85V XL	170	564	8.1	6J
165/40 R18 85V XL	178	589	8.1	6J
195/40 R17*				
165/35 R17 75V XL	175	541	8.1	6J
165/35 R18*				
195/35 R18*				
205/35 R18*				

* Under Development

DESERT HAWK UHP



DESERT HAWK H/T



DESERT HAWK A/T



DESERT HAWK M/T



DESERT HAWK A/P





Sport Utility Vehicle (SUV)

DESERT HAWK UHP



Features & Benefits

- » **Tread non directional design**
Superb cornering stability and precision steering response
- » **Solid center steering rib**
Enhances steering precision, high speed stability and a smooth quiet ride
- » **Double wide circumferential multiple**
Multiple lateral grooves channel water to reduce the possibility of hydroplaning
- » **Rim guard protection**
Provides wheel damage protection
- » **Silica compound**
Excellent handling for wet and dry road conditions. Excellent low rolling resistance and lower fuel consumption



DESERT HAWK UHP



The **DESERT HAWK UHP** is Achilles Street/Sport Truck summer tire that provides the highest level of wet and dry traction for luxury sport utility vehicles. They are available in 55-, 50-, 45-, 40-, 35- and 30-series metric sizes for 17 through 24-inch rim diameters.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
275/55 R20 117V XL	284	810	8.6	7½J, 8J, 8½J , 9J, 9½J
255/50 R19 107V XL	265	739	8.7	7J, 7½J, 8J , 8½J, 9J
265/50 R20 107V	277	774	8.3	7½J, 8J, 8½J , 9J, 9½J
285/50 R20 112V	297	794	8.7	8J, 8½J, 9J , 9½J, 10J
275/45 R19 108V XL	273	731	8.1	8½J, 9J , 9½J, 10J, 10½J
245/45 R20 99V	243	728	8.8	7½J, 8J , 8½J, 9J
255/45 R20 105V XL	255	738	8.7	8J, 8½J , 9J, 9½J
275/45 R20 110V XL	273	756	8.3	8½J, 9J , 9½J, 10J, 10½J
285/45 R22 114V XL	285	815	8.7	9J, 9½J , 10J, 10½J
305/45 R22 118V XL	303	833	8.7	9½J, 10J , 10½J, 11J, 11½J
245/40 R20 99V XL	248	704	8.7	8J, 8½J , 9J, 9½J
275/40 R20 106V XL	278	728	8.1	9J, 9½J , 10J, 10½J, 11J
305/40 R22 114V XL	313	803	8.7	10J, 10½J, 11J , 11½J, 12J
285/40 R22 110V XL	290	787	8.7	9½J, 10J , 10½J, 11J
315/35 R20 110V XL	320	728	8.7	10½J, 11J , 11½J, 12J, 12½J
265/35 R22 106V XL	271	745	8.7	9J, 9½J , 10J, 10½J
285/35 R22 112V XL	290	759	8.7	9½J, 10J , 10½J, 11J
305/35 R24 112V XL	313	824	8.6	10J, 10½J, 11J , 11½J, 12J
245/30 R22 95V XL	248	707	8.7	8J, 8½J , 9J

DESERT HAWK H/T



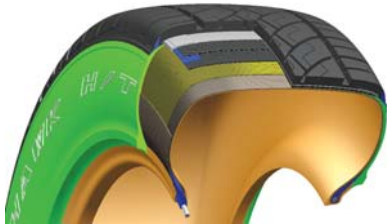
Features & Benefits

- » **Two wide straight grooves & blade grooves**
Improves water channeling and increased traction on wet and slippery roads
- » **Optimized block**
Reduces noise and unevenness
- » **Large shoulder block**
Provides strength and stiffness for outstanding handling and breaking while driving
- » **Rim guard protection**
Provides wheel damage protection



All Season

DESERT HAWK H/T



The Achilles **Desert Hawk H/T** is All-Season sport utility vehicle, pickup truck and van tire designed to provide a combination of comfort, handling and year-round traction, even in light snow. Achilles **Desert Hawk H/T** Street/Sport Truck All-Season tires are designed for the drivers of light duty pickups and sport utility vehicles that want to enhance the sporty looks of their vehicle by combining large rim diameter wheels with wide, low profile tires. They use a Non-directional tread design that efficiently channels water to increase hydroplaning resistance and features raised black letter styling on both sidewalls. They are available in 70-, 65-, 60-, 55-, and 50- series metric sizes for 16 through 19-inch rim diameters.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
P215/70 R16 100H	221	708	9.0	5½J, 6J, 6½J , 7J
P225/70 R16 107H XL	228	722	10.6	6J, 6½J , 7J, 7½J
P225/70 R16 107H XL-ROWL	228	722	10.6	6J, 6½J , 7J, 7½J
P235/70 R16 109H XL	240	736	9.6	6J, 6½J, 7J , 7½J, 8J
P245/70 R16 111H XL	248	750	9.6	6½J, 7J , 7½J, 8J
P245/70 R16 111H XL-ROWL	248	750	9.6	6½J, 7J , 7½J, 8J
P255/70 R16 111H	260	764	9.6	6½J, 7J, 7½J , 8J, 8½J
P255/70 R16 111H-ROWL	260	764	9.6	6½J, 7J, 7½J , 8J, 8½J
P265/70 R16 112H	272	778	10.2	7J, 7½J, 8J , 8½J, 9J
P265/70 R16 112H-ROWL	272	778	10.2	7J, 7½J, 8J , 8½J, 9J
P275/70 R16 114H	279	792	10.6	7J, 7½J, 8J , 8½J, 9J
P245/70 R17 110H	248	776	9.6	6½J, 7J , 7½J, 8J
P265/70 R17 115H-ROWL	272	804	10.2	7J, 7½J, 8J , 8½J, 9J
P265/70 R17 115H	272	804	10.2	7J, 7½J, 8J , 8½J, 9J
P225/65 R17 102H	228	724	10.6	6J, 6½J , 7J, 7½J, 8J
P225/65 R17*				
P235/65 R17 108H XL	240	738	9.6	6½J, 7J , 7½J, 8J, 8½J
P245/65 R17 111H XL	248	750	9.6	7J , 7½J, 8J, 8½J
P245/65 R17 111H XL-ROWL	248	750	9.6	7J , 7½J, 8J, 8½J
P265/65 R17 112H	272	776	10.1	7½J, 8J , 8½J, 9J, 9½J
P275/65 R17*				
P235/60 R17 102H	240	714	8.6	6½J, 7J , 7½J, 8J, 8½J
P275/60 R17 110H	279	762	10.6	7½J, 8J , 8½J, 9J, 9½J
P215/60 R17 96H	221	690	8.8	6J, 6½J , 7J, 7½J
P235/60 R18 107H XL	240	739	9.6	6½J, 7J , 7½J, 8J, 8½J
P265/60 R18*				
P225/55 R18 98H	233	705	10.6	6J, 6½J, 7J , 7½J, 8J
P225/55 R18 98V	233	705	10.6	6J, 6½J, 7J , 7½J, 8J
P235/55 R18 104H XL	245	715	8.6	6½J, 7J, 7½J , 8J, 8½J
P255/55 R18 109H XL	265	737	8.6	7J, 7½J, 8J , 8½J, 9J
P235/50 R18 101V XL	245	693	8.6	6½J, 7J, 7½J , 8J, 8½J
P255/50 R19 107H XL	265	739	8.6	7J, 7½J, 8J , 8½J, 9J

* Under Development

DESERT HAWK A/T



Features & Benefits

- » **Staggered tread block design**
Provides superior traction for all season performance
- » **Wide & deep tread grooves**
Enhanced resistance to hydroplaning for comfort and safety
- » **Two wide grooves**
Optimize handling on wet surfaces and disperses water efficiently to improve grip and stability
- » **Tread block type with high groove depth**
Excellent for traction in on/off road terrain



All Season

DESERT HAWK A/T



The **Desert Hawk A/T** is Achilles On/Off-Road tire developed to meet the needs of jeeps, pickups and sport utility vehicle enthusiasts. The **Desert Hawk A/T** was designed to combine reliable durability with a comfortable ride while providing year-round on/ off-road traction.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
235/75 R15 109S XL-ROWL	235	733	9.6	6J, 6½J , 7J, 7½J, 8J
235/75 R15 109S XL	235	733	9.6	6J, 6½J , 7J, 7½J, 8J
265/75 R16 116S	267	804	7.7	7J, 7½J , 8J, 8½J, 9J
235/70 R15 103S-ROWL	240	711	10.6	6J, 6½J, 7J , 7½J, 8J
235/70 R15 103S	240	711	10.6	6J, 6½J, 7J , 7½J, 8J
P245/70 R16 111H XL	248	750	6.9	6½J, 7J , 7½J, 8J
265/70 R16 112S	272	778	7.8	7J, 7½J, 8J , 8½J, 9J
P265/65 R17 112S	272	776	7.8	7½J, 8J , 8½J, 9J, 9½J
31 x 10.5 R15 LT 109S	268	775	10.1	7J, 7½J, 8J, 8½J , 9J
30 x 9.50 R15	240	750	9.6	6½J, 7J, 7½J , 8J, 8½J
225/75 R16*				

* Under Development

DESERT HAWK M/T



Features & Benefits

- » **Double steel-belted radial construction**
For long-lasting wear and uniformity
- » **Jointless spiral-wrapped full nylon cap**
For added strength and stability
- » **Extra strong**
Durable casing helps resist punctures and abrasions



DESERT HAWK M/T



The **DESERT HAWK M/T** is Achilles Tire's On/Off-Road light truck tire was developed for pickup trucks and sport utility vehicles looking for exceptional traction over all terrains. The **DESERT HAWK M/T** was designed to combine long wear and reliability with year-round competence on- and off-road in wet and dry and winter conditions.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
31x10.50 R15 6PR LT 109Q	268	781	14.5	7J, 7½J, 8J, 8½J , 9J
31x10.50 R15 6PR LT 109Q-ROWL	268	781	14.5	7J, 7½J, 8J, 8½J , 9J
LT245/75 R16 6PR 108/104Q	248	780	14.4	6½K, 6½L, 6½J, 7J , 7K , 7L , 7½J, 8J

DESERT HAWK A/P



Features & Benefits

- » **Four straight broad groove pattern design**
Enhances the hydroplaning effect safety on wet grounds
- » **Multi sipes design**
Enhances the driving comfort
- » **Deeper shoulder groove depth design**
Improves the premature wear of the tire and enhances longevity of the tire life



All Season

DESERT HAWK A/P



Desert Hawk A/P is a Highway All-Season tire that provides better handling necessary to tame light trucks for the road. Whether in town or on the interstate, Desert Hawk A/P tires are designed to bring the qualities of passenger car comfort and a quiet ride for sport utility vehicles and pickup trucks, while providing year-round traction.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
LT215/85 R16 10PR 115/112L	216	772	10.8	5½K, 5½J, 5.50F, 6J, 6K , 6½J, 6½L, 7J, 7K, 7L
LT235/85 R16 10PR 120/116L	235	806	10.8	6J, 6K, 6L, 6½J, 6½L , 7J, 7K, 7L, 7½J
LT225/75 R16 10PR 115/112L	223	744	11.5	6K, 6J , 6½K, 6½L, 6½J, 7J, 7K, 7L
LT245/75 R16 10PR 120/116L	248	774	9.6	6½K, 6½J, 6½L, 7J, 7K, 7L , 7½J, 8J

MULTIVAN



LTR-80



9595



ECONO VAN



X-GRIP





Light Truck Radial (LTR)

MULTIVAN



Features & Benefits

- » **Four straight grooves pattern designs**
Increase water channeling
- » **Multi-tread groove design**
Provides attraction to move up on snowy ground
- » **Broad tread design**
Enhances longevity of tire life
- » **Evenly distributed sipes**
Promotes the rigidity of pattern and the lasting wear of the tire





TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
205/75 R16C 113/111T	203	714	8.4	5J, 5½J , 6J, 6½J, 7J
215/75 R16C 116/114T	228	697	8.4	5½J, 6J , 6½J, 7J
195/70 R15C 104/102T	201	655	8.2	5J, 5½J, 6J
205/70 R15C 106/104T	209	669	8.1	5½J, 6J , 6½J
215/70 R15C 109/107T	221	683	8.3	5½J, 6J, 6½J , 7J
225/70 R15C 112/110T	228	697	8.2	6J, 6½J , 7J
195/65 R16C 104/102T	201	660	8.2	5½J, 6J
205/65 R16C 107/105T	209	672	8.1	5½J, 6J , 6½J
225/65 R16C 112/110T	228	698	7.7	6J, 6½J , 7J
235/65 R16C 115/113T	240	712	8.2	6½J, 7J , 7½J
215/60 R16C 108/106Q	221	664	8.2	6J, 6½J , 7J, 7½J

LTR-80



Features & Benefits

» **Three directional twists and turns groove design**

Provides outstanding grip when driving on/off road conditions like stony and muddy surfaces

» **Zigzag grooves on shoulder blocks**

Improve contact performance. Excellent grip ability, good breaking performance and extended riding mileage, while lowering heating, wear ability and fuel economy benefits

» **The open shoulder design**

Reduces shoulder heating



Summer

LTR-80



TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
185 R14C 8PR 102/100Q	188	650	8.6	5J, 5½J , 6J
195 R14C 8PR 106/104Q	198	666	9.0	5J, 5½J , 6J
195 R15C 8PR 106/104Q	198	690	9.0	5J, 5½J , 6J

9595



Features & Benefits

- » **X shape tread crown**
Improves water channeling and traction on wet and dry surfaces
- » **Stronger belt and ply material**
Stronger tread and sidewall region to withstand heavy load operation
- » **Wider groove in between block**
Improve water channeling
- » **Bigger block pattern at crown area with zigzag groove**
Enhances traction and improves the comfort during driving

9595



The **9595** has robust construction with stronger belt and ply material which withstands the heavy load. X shape pattern at tread crown improves water channeling and breaking.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
195 R15C 8PR 106/104Q	198	690	9.0	5J, 5½J , 6J, 6½J
205/75 R14C 8PR 109/107S	203	664	8.6	5½J, 6J , 6½J
205/75 R15C 8PR 103/100S	203	689	8.6	5½J, 6J , 6½J

ECONO VAN



Features & Benefits

- » **Shoulder rib**
Connects shoulder blocks to minimize irregular wear and Increases stability
- » **Multi-wave sipes**
Minimize irregular wear for longer tread life and a smooth, quiet ride. Increased all-season traction
- » **Three wide circumferential grooves**
Channels water to improve wet traction
- » **Optimized center block arrangement**
Variable-pitch angles on center blocks provide good road contact for increased ride comfort



All Season

ECONO VAN



TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
195/80 R15C 8PR 110/108Q	195	691	9.0	5J, 5½J , 6J, 6½J
185/80 R14 91T	184	652	7.9	4½J, 5J , 5½, 6J

X-GRIP



Features & Benefits

» **Symmetric, non-directional tread design**

Continue to function as tire wears to assist with wet and snow traction

» **full-depth sipes**

Enables cross rotation to reduce irregular wear. Variable pitch tread blocks reduce noise generated between road and tire

» **multi-wave sipes**

Minimize irregular wear for a longer tread life and a smooth, quiet ride.
Increased all-season traction



All Season

X-GRIP



The **X-GRIP** is an all-season light truck tire, designed for optimal ride comfort, quiet performance and handling during city and highway use. This M+S rated tire is perfect for upgrading the ride quality of your light truck, SUV or cross over vehicle.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
205/65 R15C 102/100R	209	647	8.3	5½J, 6J , 6½J, 7J, 7½J

WINTER 101



Winter Tire

WINTER 101



Features & Benefits

- » **Interlocking sipes**
Provides maximum edges for traction
- » **Center rib design**
More precise handling and sportier performance
- » **Wider sipes on the shoulder**
Enhanced snow absorption



Snow

WINTER 101



Excellent function and mobility in all winter driving conditions. This tire features outstanding traction and shorter breaking distance on both snow and ice.

TIRE SIZE	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	TREAD DEPTH (mm)	RIM APPROVED (Bold = Suggested)
155/70 R13 75T	157	548	9.0	4.00B, 4J, 4.50B , 4½J , 5.00B, 5J
175/70 R13 82T	177	576	9.0	4.50B, 4½J, 5.00B , 5J , 5.50B, 5½J, 6.00B, 6J
185/70 R14 88T	189	616	9.0	4½J, 5J, 5½J , 6J
185/70 R14 88H	189	616	9.0	4½J, 5J, 5½J , 6J
155/65 R14 75T	157	558	9.0	4.50B , 4½J , 5.00B, 5J, 5.50B, 5½J
175/65 R14 82T	177	584	9.0	5.00B , 5J , 5.50B, 5½J, 6J
185/65 R14 86T	189	596	9.0	5J, 5½J , 6J, 6½J
185/65 R15 88T	189	621	9.0	5J, 5½J , 6J, 6½J
195/65 R15 91T	201	635	9.0	5½J, 6J , 6½J, 7J
215/65 R16 98H	221	686	9.0	6J, 6½J , 7J, 7½J
185/60 R15 84T	189	603	9.0	5J, 5½J , 6J, 6½J
205/60 R15 91H	209	627	9.0	5½J, 6J , 6½J, 7J, 7½J
195/60 R16 89H	201	640	9.0	5½J, 6J , 6½J, 7J
215/60 R17 96T	221	690	9.0	6J, 6½J , 7J, 7½J
215/60 R17 96H	221	690	9.0	6J, 6½J , 7J, 7½J
205/55 R16 91H	214	632	9.0	5½J, 6J, 6½J , 7J, 7½J
215/55 R18 95H	226	693	9.0	6J, 6½J, 7J , 7½J
215/45 R17 91V XL	213	626	9.0	7J , 7½J, 8J
225/45 R17 94V XL	225	634	9.0	7J, 7½J , 8J, 8½J
215/40 R18 89V XL	218	629	9.0	7J, 7½J , 8J, 8½J
225/40 R18 92V XL	230	637	9.0	7½J, 8J , 8½J, 9J
215/35 R19 85V XL	218	633	9.0	7J, 7½J , 8J, 8½J
225/35 R19 88V XL	230	641	9.0	7½J, 8J , 8½J, 9J

NEW PRODUCT LINE UP



ATR-K Sport

TIRE SIZE

165/55 R14
165/50 R15



ATR SPORT

TIRE SIZE

235/50 R18
215/45 R17
225/45 R17
235/45 R17
225/45 R19
205/40 R18
275/40 R18
245/40 R17
225/40 R18
235/40 R18
245/40 R19
255/35 R18
265/35 R18
245/35 R19
225/35 R20
245/35 R20
275/35 R19
275/30 R19
245/30 R20
245/30 R22
255/30 R20
275/30 R20
245/30 R22
305/30 R18



DESERT HAWK XMT

TIRE SIZE

31 x 10.5 R15
32 x 11.5 R15
33 x 12.5 R15
265/70 R16
265/65 R17
265/75 R16