

saferich



SAFERICH PRODUCT MANUAL

SHANDONG FENGYUAN TIRE MANUFACTURING CO.,LTD.

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Shandong Fengyuan tire manufacturing co.,ltd.



Located in Yicheng Economic Development Zone, Zaozhuang City, Shandong Province, Shandong Fengyuan Tire Manufacturing Co., Ltd., is closed to Jingfu Highway, Jinghu High Speed Railway, and only 400km away from Qingdao Port. Fengyuan covers 628 acres (420,000 m^2), total construction area of 258,000 m^2 with 1250 employees. Project designed and planned for the annual 20 million semi-radial tires, by the end of 2015 with an annual output of 10 million semi-radial tires capacity. Targeted high level development, the company is equipped with international advanced equipment, R&D, and experiment facilities, including VMI from Holland, Double Calender Machine from Italy, TROESTER Quadruple Extruders from Germany, Dong-Hwa Hydraulic Curing Machine from Korea,

SDS Laser Interferometer from Germany, balancing and uniformity testing machine from Japan, and Alpha Mooney viscometer and rheometer. Domestic most advanced low-temperature method of rubber mixing lines and calendering lines, high-precision bias cutting lines, automatic molding lines and high-temperature nitrogen sulfide lines have been established. Modern enterprise automation, intelligentization and information management level has been further improved by adopting MES, vulcanization machine controller system and sales information management system. Key equipments are first-class in tire industry.



PROFESSIONAL

- UF&DB Testing machine from Japan Kokusai
- Advanced hydraulic curing machine from Korea



- Automatic tiered warehouse facility curing moulds
- Extruder line From Germany Troester



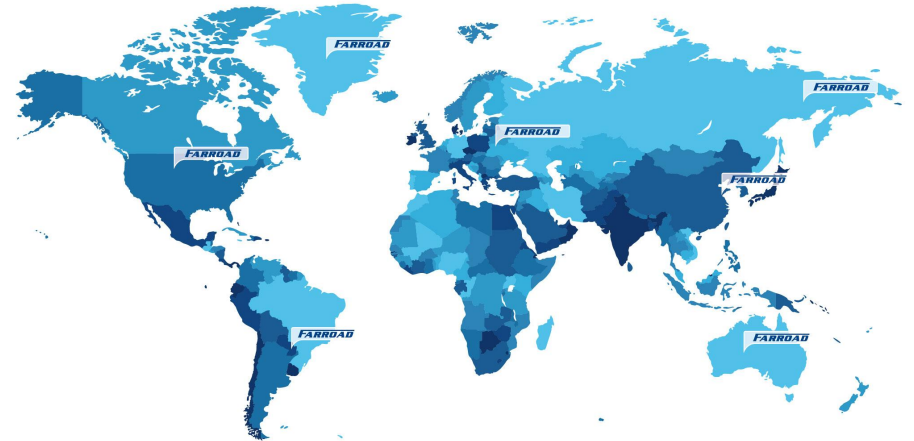
- Advanced double calender line from Italy



- The most advanced building machines from Holland VMI
- Cutting machine from Germany Fischer



CERTIFICATE





Product features:

Block block shoulder design increases the intensity of the pattern. The high and low shoulder and the inside and outside shoulder are interlaced to greatly improve the passing performance. The interlaced middle block and different design on both side improve the cross-country performance. Fearless road conditions, professional MT tire.



Size	Load Index / Speed Rating	Standard Rim	Max. Load (kg)	Max. Pressure (kpa)
35*12.5R17LT	121Q	10.0J	1450	450
33*12.5R18LT	118Q	10.0J	1320	450
35*12.5R18LT	123Q	10.0J	1550	450
LT235/75R15	116/113Q 110/107Q	6.5J	1250/1150	550
30X9.50R15LT	104Q	7.5J	900	350
31X10.50R15LT	109Q	8.5J	1030	350
LT245/75R16	120/116Q 114/111Q	7.0J	1380/1260	550
LT265/75R16	123/120Q 119/116Q	7.5J	1550/1400	550
LT285/75R16	126/123Q	8.0J	1700/1550	550
LT265/70R17	121/118Q	8.0J	1450/1320	550
LT285/70R17	121/118Q	8.5J	1450/1320	550
33X12.50R20LT	114Q	10.0J	1180	450
35X12.50R20LT	121Q	10.0J	1450	450



X-ARROW

Product features:

Single Guide large angle pattern design, ensure the tire's ultimate handling performance, and take you the most pure driving pleasure. High wear-resistant compound, make the tires to be the most excellent track performance.

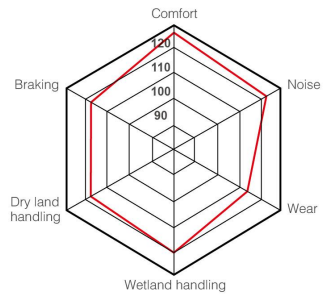
Size	Load Index / Speed Rating	Standard Rim	Max. Load (kg)	Max. Pressure (kpa)
195/50R15	82V	6J	475	300
205/40R17	84V	7.5J	500	340
225/45R17	94V	7.5J	670	340



FRC16



Performance Test:



Product features:



Criss-cross grooves design enhance water evacuation, effectively prevent tire lateral slip on wet road.



Central rib combined with horizontal grooves provides nice stability, excellent acceleration and brake performance at high speed.



FRC16

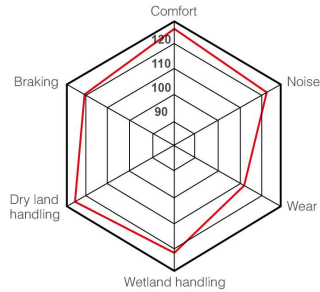
Size	Load Index	Speed Rating	Standard Rim	Size	Load Index	Speed Rating	Standard Rim
155/65R13	73T	4%J		205/50ZR16	87W	6%J	
155/70R13	75T	4%J		205/55R16	91V	6%J	
155/80R13	79T	4%J		205/55ZR16	91W	6%J	
165/65R13	77T	5J		205/55ZR16	94W	6%J	
165/65R13	77H	5J		205/60R14	88H	6J	
165/65R14	79H	5J		205/60R15	91H	6J	
165/70R13	79H	5J		205/60R15	91V	6J	
165/70R13	79T	5J		205/60R16	92H	6J	
165/70R14	81T	5J		205/60R16	92V	6J	
165/80R13	83H	4%J		205/65R15	94H	6J	
165/80R13	83T	4%J		205/65R15	94V	6J	
175/60R13	77H	5J		205/65R16	95V	6J	
175/60R15	81H	5J		205/70R14	98T	6J	
175/65R14	82H	5J		205/70R15	96H	6J	
175/65R14	82T	5J		215/55ZR16	97W	7J	
175/65R14	86H	5J		215/60R16	95H	6%J	
175/65R14	86T	5J		215/60R16	95V	6%J	
175/65R15	84H	5J		215/65R15	100H	6%J	
175/70R13	82H	5J		215/65R16	98H	6%J	
175/70R13	82T	5J		215/70R15	98T	6%J	
175/70R14	84H	5J		215/70R16	100T	6%J	
175/70R14	84T	5J		215/70R16	100H	6%J	
185/55R15	82V	6J		225/50ZR16	92W	7J	
185/60R14	82H	5%J		225/50ZR16	96W	7J	
185/60R15	84H	5%J		225/55ZR16	99W	7J	
185/60R15	88H	5%J		225/60R16	102H	6%J	
185/65R14	86H	5%J		225/60R16	98H	6%J	
185/65R14	86T	5%J		225/70R15	100T	6%J	
185/65R15	88H	5%J		225/70R15	100H	6%J	
185/65R15	88T	5%J		225/70R16	103T	6%J	
185/70R14	88H	5%J		225/70R16	103H	6%J	
185/70R14	88T	5%J		155/65R14	75T	4%J	
195/50R15	82V	6J		155/65R14	75H	4%J	
195/50R16	84H	6J		165/65R15	81T	5J	
195/50R16	84V	6J		165/65R15	81H	5J	
195/55R15	85V	6J		175/55R15	77T	5%J	
195/55R16	87H	6J		175/55R15	77H	5%J	
195/55R16	87V	6J		185/55R16	83V	6J	
195/60R14	86H	6J		185/55R16	83H	6J	
195/60R15	88H	6J		185/70R13	86H	5%J	
195/60R15	88V	6J		185/70R13	86T	5%J	
195/65R14	89H	6J		195/75R14	92H	5%J	
195/65R15	91H	6J		195/75R14	92T	5%J	
195/65R15	91V	6J		205/50R15	86V	6%J	
195/70R14	91H	6J		225/60R15	96H	6%J	
195/70R14	91T	6J		165/60R14	75H	5J	
195/70R14	95H	6J		165/60R14	75T	5J	
195/70R15	97S	6J					



FRC26



Performance Test:



Product features:



Asymmetric tread design;
Four wide grooves design provide effective drainage and sufficient wet safety performance.



Innovative Technology:
Willow leaf-shaped biomimetic tread block design Adopting willowshaped biomimetic pattern block design inside, effectively prevent abnormal wear of pattern block corners. Together with "S" shaped on tread grooves, bring soft, silence and comfort.



FRC26

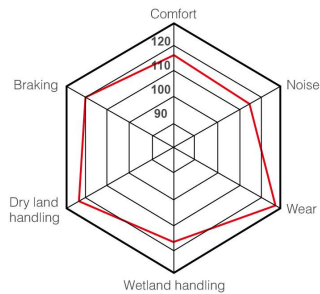
Size	Load Index	Speed Rating	Standard Rim	Size	Load Index	Speed Rating	Standard Rim
195/45R16	84V	6½J		235/35ZR19	91W	8½J	
195/50R15	82V	6J		235/35ZR20	92W	8½J	
195/55R15	85V	6J		235/40ZR18	95W	8½J	
195/60R16	89H	6J		235/45ZR17	97W	8J	
205/40ZR17	84W	7½J		235/45ZR18	98W	8J	
205/45ZR16	87W	7J		235/45ZR19	99W	8J	
205/45ZR17	88W	7J		235/50ZR17	96W	7½J	
205/50ZR16	91W	6½J		235/50ZR17	100W	7½J	
205/50ZR17	93W	6½J		235/50ZR18	101W	7½J	
205/55ZR16	91W	6½J		235/55ZR17	103W	7½J	
205/55ZR16	94W	6½J		235/55ZR18	104W	7½J	
205/55ZR17	95W	6½J		235/60R15	98H	7J	
215/35ZR18	84W	7½J		235/60R15	98V	7J	
215/35R19	85V	7½J		235/60R17	102H	7J	
215/35ZR19	85W	7½J		235/60R17	102V	7J	
215/40ZR16	86W	7½J		235/65R16	103H	7J	
215/40ZR17	87W	7½J		245/35ZR19	93W	8½J	
215/40ZR18	89W	7½J		245/35ZR20	95Y	8½J	
215/45ZR16	90W	7J		245/40ZR17	95W	8½J	
215/45ZR17	91W	7J		245/40ZR18	97W	8½J	
215/50ZR17	95W	7J		245/40ZR19	98W	8½J	
215/55ZR16	97W	7J		245/45ZR17	99W	8J	
215/55ZR17	98W	7J		245/45ZR18	100W	8J	
225/30ZR19	84W	8J		245/45ZR19	102W	8J	
225/35ZR19	88W	8J		245/50ZR18	100W	7½J	
225/35ZR20	90W	8J		245/60R15	101V	7J	
225/40ZR17	90W	8J		245/60R15	101H	7J	
225/40ZR18	92W	8J		255/35ZR18	94Y	9J	
225/45ZR17	94W	7½J		255/35ZR19	96W	9J	
225/45ZR18	95W	7½J		255/35ZR20	97W	9J	
225/50ZR16	96W	7J		255/40ZR18	99W	9J	
225/50ZR17	98W	7J		255/40ZR19	100W	9J	
225/50R18	99V	7J		255/45ZR18	103W	8½J	
225/50ZR18	99W	7J		255/50ZR19	107V	8J	
225/55ZR16	99W	7J		255/50ZR19	107W	8J	
225/55ZR17	101W	7J		255/55R18	109H	8J	
225/55ZR18	102W	7J		255/55R18	109V	8J	
225/55ZR19	99W	7J		265/35ZR18	97Y	9½J	
225/60R17	99H	6½J		265/45ZR20	108W	9J	
225/60R17	99V	6½J		265/50R20	111V	8½J	
225/60R18	104H	6½J		275/35ZR19	108W	9½J	
225/60R18	104V	6½J		275/40ZR20	106W	9½J	
225/65R16	100H	6½J		205/50ZR16	91W	6½J	
225/65R16	100V	6½J					

FRC66

ALL SEASON SUV TIRE



Performance Test:



Product features:



Four wide grooves design provide effective drainage and sufficient wet safety performance.



Design of central rib with sipes promotes the rigidity, help to balance high-speed performance and grip performance on wet land.



The compact shoulder design provide excellent handling performance with low noise.



Multiple blade groove pattern provide excellent grip and handling performance on wet land.

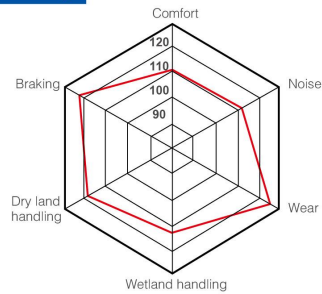


FRC66

Size	Load Index	Speed Rating	Standard Rim	Size	Load Index	Speed Rating	Standard Rim
205/70R15	100T	6J		245/70R17	110H	7J	
215/55R18	95V	7J		255/50R19	103V	8J	
215/60R17	96H	6½J		255/50R19	107V	8J	
215/65R16	102H	6½J		255/55R18	109V	8J	
215/65R17	99H	6½J		255/55R19	111H	8J	
215/70R16	100T	6½J		255/55R19	111V	8J	
215/75R15	100T	6J		255/60R17	106V	7½J	
225/50R18	99H	7J		255/60R18	112H	7½J	
225/60R17	99H	6½J		255/60R18	112V	7½J	
225/60R18	100H	6½J		255/65R16	109H	7½J	
225/65R17	106H	6½J		255/65R17	110T	7½J	
225/65R17	102H	6½J		255/65R17	110H	7½J	
225/70R16	103T	6½J		255/70R15	108T	7½J	
225/75R15	102T	6J		255/70R16	111T	7½J	
235/50R19	99V	7½J		265/50R19	110V	8½J	
235/55R17	103V	7½J		265/60R18	110H	8J	
235/55R18	104V	7½J		265/65R17	116H	8J	
235/60R16	100V	7J		265/65R17	112H	8J	
235/60R17	102H	7J		265/65R18	114H	8J	
235/60R18	107H	7J		265/70R15	112S	8J	
235/65R16	103T	7J		265/70R15	112T	8J	
235/65R16	103H	7J		265/70R16	112T	8J	
235/65R17	108H	7J		265/70R17	115T	8J	
235/65R18	110H	7J		265/70R18	116T	8J	
235/70R16	106T	7J		275/45R19	108V	9J	
235/75R15	105S	6½J		275/55R19	111V	8½J	
245/55R19	103V	7½J		275/65R17	115H	8J	
245/60R18	105H	7J		275/65R18	116H	8J	
245/60R18	105V	7J		275/70R16	114T	8J	
245/65R17	111H	7J		275/70R16	114H	8J	
245/70R16	107T	7J		285/50R20	116V	9J	
245/70R16	111H	7J		285/65R17	116H	8½J	
245/70R17	110T	7J					



Performance Test:



Product features:



Prevent stone nipped, enhance the ability to get rid of the stone.



Enhance the block rigidity, endurance, weight-carrying ability and steering qualities during driving.



Solid staggered central rib design ensures straight-line driving stability and safety.



Promote the grip performance on wet and dry land, enhance the tractive performance.



FRC86

Size	Load Index	Speed Rating	Standard Rim	Size	Load Index	Speed Rating	Standard Rim
215/70R16	100S	6%J		255/70R16	111S	7%J	
215/70R16	100T	6%J		255/55R18	109H	8J	
215/75R15LT	100/97R	6J		265/65R17	112S	8J	
215/75R15LT	100/97Q	6J		265/65R17	112T	8J	
215/85R16LT	115/112R	6J		265/70R16	112S	8J	
215/85R16LT	115/112Q	6J		265/70R16	112T	8J	
215/85R16LT	110/107R	6J		265/70R16LT	121/118R	8J	
215/85R16LT	110/107Q	6J		265/70R16LT	121/118S	8J	
225/70R16	103S	6%J		265/70R17	115S	8J	
225/70R16	103T	6%J		265/70R17	115T	8J	
225/75R15LT	108/104R	6J		265/70R17LT	121/118R	8J	
225/75R15LT	108/104Q	6J		265/70R17LT	121/118S	8J	
225/75R16LT	115/112Q	6J		265/60R18	110H	8J	
225/75R16LT	115/112R	6J		265/70R18LT	124/121R	8J	
235/70R16	106S	7J		265/70R18LT	124/121S	8J	
235/70R16	106T	7J		265/75R16LT	123/120Q	7%J	
235/75R15LT	116/113Q	6%J		265/75R16LT	123/120R	7%J	
235/75R15LT	116/113R	6%J		275/65R17	115S	8J	
235/80R17LT	120/117Q	6%J		275/65R17	115T	8J	
235/80R17LT	120/117R	6%J		275/70R16	114T	8J	
235/85R16LT	120/116Q	6%J		275/70R16	114S	8J	
235/85R16LT	120/116R	6%J		285/60R18	120H	8%J	
235/60R18	107H	7J		275/65R18LT	123/120S	8J	
245/70R16	107S	7J		285/70R17LT	121/118R	8%J	
245/70R16	107T	7J		285/70R17LT	121/118S	8%J	
245/70R17LT	119/116R	7J		285/75R16LT	126/123Q	8J	
245/70R17LT	119/116S	7J		285/75R16LT	126/123R	8J	
245/75R16LT	120/116Q	7J		30*9.50R15LT	104Q	7%J	
245/75R16LT	120/116R	7J		31*10.50R15LT	109R	8%J	
245/75R17LT	121/118R	7J		31*10.50R15LT	109S	8%J	
245/75R17LT	121/118Q	7J		205R16C	110/108S	6J	
255/70R16	111T	7%J		215R15C	113/111S	6J	

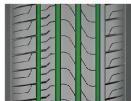
FRC866



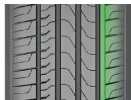
Product features:



Smooth asymmetric pattern, ensuring better controlling performance of outside while enhancing drainage of inside.



Four wide deep grooves keep excellent wetting performance and handling stability

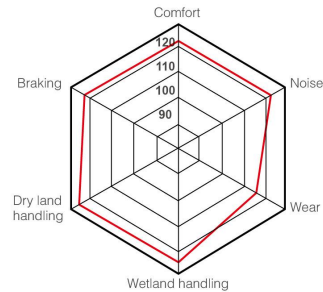


Outside shoulder reinforcement improving handling performance at curve, effectively preventing abnormal wear.



Bended steel groove, effectively reducing the noise while enlarging ground contact area.

Performance Test:



FRC866

Size	Load Index Speed Rating	Standard Rim	Size	Load Index Speed Rating	Standard Rim
215/55R18	99V	7J	255/40ZR20	101W	9J
215/55ZR18	99W	7J	265/40ZR20	104W	9½J
225/55R18	102V	7J	275/40ZR18	99Y	9½J
225/55ZR18	102W	7J	275/40ZR20	106W	9½J
225/55R19	99V	7J	275/40R20	106V	9½J
225/55ZR19	99W	7J	285/40ZR19	103Y	10J
235/55R20	105V	7½J	225/45ZR19	96W	7½J
235/55ZR20	105W	7½J	235/45ZR18	98W	8J
245/55R19	103V	7½J	235/45R19	99V	8J
245/55ZR19	103W	7½J	235/45ZR19	99W	8J
255/55R20	110V	8J	245/45ZR17	99W	8J
255/55ZR20	110W	8J	245/45ZR20	103W	8J
225/60R17	103H	6½J	255/45ZR19	104W	8½J
225/60R17	103V	6½J	275/45R20	110V	9J
235/60R18	107H	7J	275/45ZR20	110W	9J
235/60R18	107V	7J			

RUN-FLAT TIRE

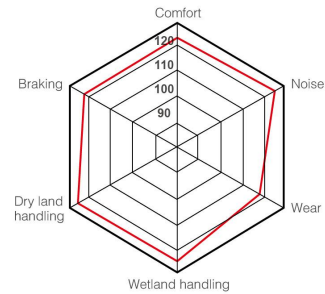
Size	Load Index / Speed Rating	Standard Rim	Max. Load (kg)	Max. Pressure (kpa)
225/45ZRF18	95W	7½J	690	340
225/50ZRF17	98W	7J	750	340
225/55ZRF17	101W	7J	825	340
245/45ZRF18	100W	8J	800	340
245/45ZRF18	96W	8J	710	300
245/50ZRF18	100W	7½J	800	300
255/40ZRF18	99W	9J	775	340
255/50ZRF19	107W	8J	975	340
255/50RF19	107V	8J	975	340
255/55RF18	109V	8J	1030	340
255/55ZRF18	109W	8J	1030	340
225/55RF19	99V	7J	775	300
225/55RF19	99H	7J	775	300



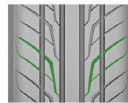
EXTAR FAC88



Performance Test:



Product features:



"Flying wing" large inclination with single guide symmetrical pattern , ensure the tire's super visual speed , drainage and steering performance.



Four criss-cross grooves design, ensure the excellent drainage and handling performance.



Center wide rib ensure the guide performance



Wide available groove design avoid the air flow, decrease inordinate wear , increase tire life time.



EXTAR FAC88

Size	Load Index	Speed Rating	Standard Rim	Size	Load Index	Speed Rating	Standard Rim
225/30ZR22	87W	8J		265/35ZR22	102W	9½J	
235/30ZR20	88W	8½J		265/40ZR18	101W	9½J	
235/30ZR22	90W	8½J		265/40ZR20	104Y	9½J	
235/45ZR18	98W	8J		265/40ZR22	106W	9½J	
235/50R19	103V	7½J		265/50ZR20	111W	8½J	
235/50ZR19	103W	7½J		275/25ZR24	96W	10J	
235/55ZR19	105W	7½J		275/30ZR24	101W	9½J	
235/65R18	110H	7J		275/35ZR20	102W	9½J	
235/65R18	110V	7J		275/40R19	105V	9½J	
245/30ZR22	92W	8½J		275/40ZR19	105W	9½J	
245/35ZR19	93W	8½J		275/40ZR20	106V	9½J	
245/35ZR20	95W	8½J		275/40ZR20	106W	9½J	
245/45ZR19	102W	8J		275/45ZR20	110W	9J	
245/45ZR20	103W	8J		275/55R20	117V	8½J	
245/50ZR20	102W	7½J		275/55ZR20	117W	8½J	
245/55ZR19	103W	7½J		275/60R20	115V	8J	
255/30ZR22	95W	9J		275/60ZR20	115W	8J	
255/30ZR24	97W	9J		285/35ZR22	106W	10J	
255/40ZR18	99W	9J		285/45ZR19	111W	9½J	
255/45R17	98V	8½J		285/45ZR22	114W	9½J	
255/45ZR17	98W	8½J		285/50ZR20	116W	9J	
255/45R19	104V	8½J		295/25ZR22	97Y	10½J	
255/45ZR19	104W	8½J		295/30ZR22	103W	10½J	
255/45ZR20	105W	8½J		295/35R24	110V	10½J	
255/50ZR20	109Y	8J		295/35ZR24	110W	10½J	
255/50ZR20	109W	8J		305/35ZR24	112W	11J	
255/55ZR20	110W	8J		305/40ZR22	114W	11J	
265/30ZR19	93W	9½J		305/45ZR22	118W	10J	
265/30ZR22	97W	9½J		315/35ZR20	110W	11J	

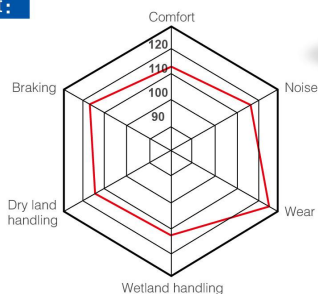


FRC96

COMMERCIAL / LIGHT TRUCK TIRE



Performance Test:



Product features:



FRC96

Size	Load Index / Speed Rating	Standard Rim	Max. Load (kg)	Max. Pressure (kpa)
175/65R14C	90/88T	5J	600/560	375
175/75R16C	98/96Q	5J	750/710	375
185/75R16C	104/102S	5J	900/850	475
185R14C	102/100S	5½J	850/800	450
195/60R16C	99/97T	6J	775/730	375
195/65R16C	104/102T	6J	900/850	475
195/70R15C	104/102S	6J	900/850	450
195/75R16C	107/105S	5½J	975/925	475
195R14C	106/104S	5½J	950/900	450
195R14LT	105/103S	5½J	925/875	450
195R15C	106/104S	5½J	950/900	450
195R15LT	106/104S	5½J	950/900	450
205/65R16C	107/105T	6J	975/925	475
205/70R15C	106/104S	6J	950/900	450
205/75R16C	110/108R	5½J	1060/1000	475
215/60R16C	103/101T	6½J	875/825	375
215/65R16C	109/107T	6½J	1030/975	475
215/70R15C	109/107S	6½J	1030/975	450
215/75R14C	112/110S	6J	1120/1060	475
215/75R16C	116/114R	6J	1250/1180	525
225/65R16C	112/110T	6½J	1120/1060	475
225/70R15C	112/110S	6½J	1120/1060	450
225/70R15LT	106/103S	6½J	950/875	450
225/75R16C	121/120R	6J	1450/1400	575
235/65R16C	115/113T	7J	1215/1150	475
6.50R15LT	106/101N	5.50F	950/825	560
6.50R16C	108/107N	4½J	1000/975	500
7.00R16C	117/116N	5½J	1285/1250	600
7.50R16C	121/120N	6J	1450/1400	625
7.00R15LT	109/105N	5.50F	1030/925	560
205R14C	109/107N	6J	1030/975	450
185R14LT	102/100S	5½J	850/800	450
185R14LT	97/95S	5½J	730/690	350