

TOYO TIRES

# TOYO TIRES

## Middle East & Africa Product Catalogue 2020-2021

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**Toyo Tire Corporation**

2-13, Fujinoki 2-chome, Itami City, Hyogo 664-0847, Japan  
<https://www.toyotires-global.com/>



## *We just love tires!!!*

And we love folks who go all out  
in pursuit of what they love.

No need to be held back by preconceptions.  
Don't be afraid to stand out from the crowd.  
Set yourself free and do what you love.

Originality and invention have always come  
from a place of passion and love.

It's love that drives our obsession.  
It's love that pushes us to innovate.  
And it's why we care so much.

At TOYO TIRES we just love tires.

If you love the ride, come with us...

***Open Roads Await***

**TOYO TIRES**

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Produced in : November, 2019



## About Toyo Tires

Toyo Tires is one of the world's leading tire manufacturers with subsidiaries or agents in over 100 countries and regions. We make tire products for passenger vehicles, large vehicles such as SUVs, CUVs and pickup trucks as well as trucks and buses.

With a growing worldwide tire demand, the Toyo Tires Group is building a global production and supply system with the aim of ensuring a quick supply of products critical to each regional market.

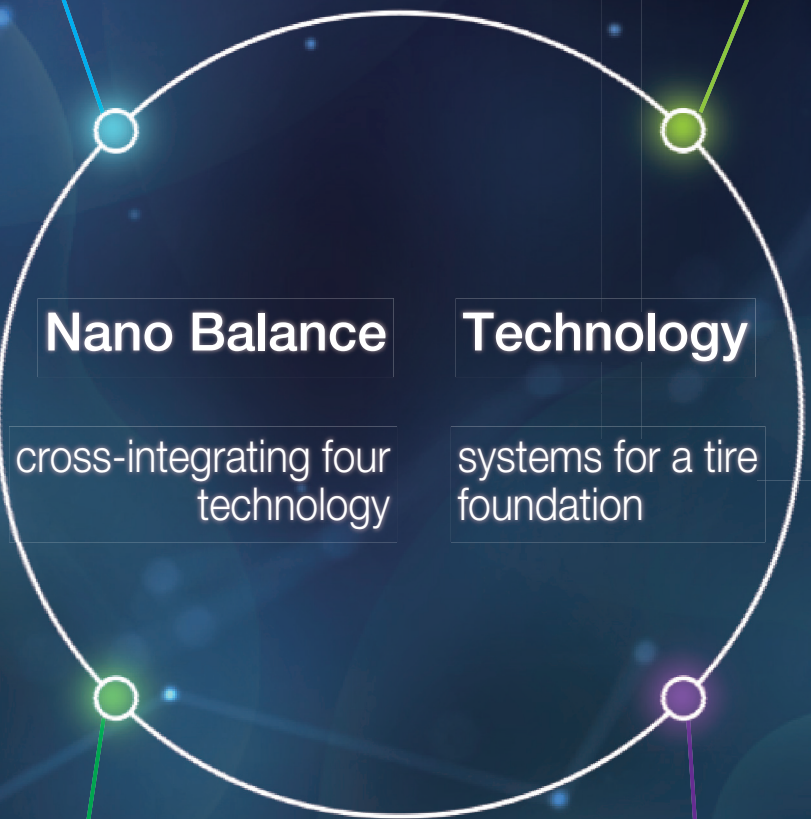
To ensure consistent, high performance and quality anywhere, our unique philosophy is to continue to refine our technologies and then transplant the latest technology into our newly built plants.

Our unwavering policy is to deliver to the world the high performance and quality (Japanese quality) that we create as a Japanese tire manufacturer.

# Fundamental Material Design Technology

## Nano Balance Technology

Tires are comprised of various materials, such as rubber, carbon black, and silica. The molecular structures and composition properties of these materials are complexly involved with each other, and as tires generate performance. For these materials that comprise tires, we "simulate", "create", "control", and "research" them at the nano level (1 nano = 1 billionth meters) in order to develop ideal rubber materials with precision. This is TOYO TIRES' **Nano Balance Technology**.

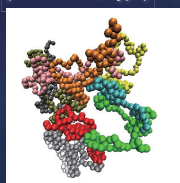


### Nano-level analysis / prediction

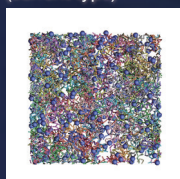
#### Simulate

Analyze the compounding ratio of filler<sup>1</sup> and polymer<sup>2</sup> at the nano level in order to introduce the required performance.

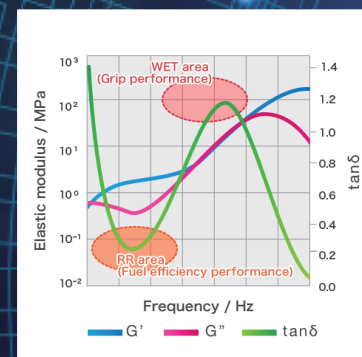
Simulation model (conventional type)



Simulation model (current type)



Nano tanδ simulation



Nano tanδ simulation, the first in the tire industry. Established the graphing technology which successfully calculates the master curve of energy loss (viscoelasticity) through the microscopic structure of the rubber material. This technology enables forecasting of the most appropriate compound of two opposing performances for grip and fuel efficiency through simulation.

\*1: [Filler] means substances such as carbon black and silica added to material rubber, and used as a generic term for compounding agents to improve the reinforcement, workability, and/or economic performance.  
\*2: [Polymer] means molecular components that comprise natural or synthetic rubber.

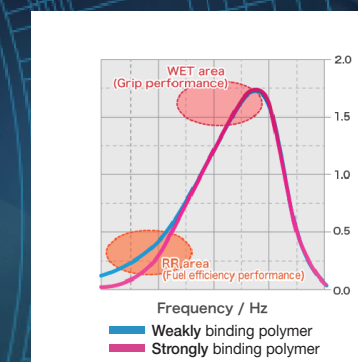
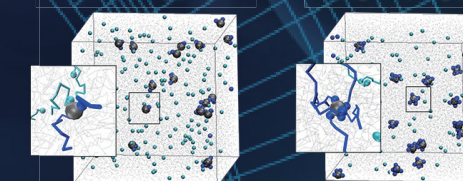
### Nano-level material design

#### Create

Design new materials based on the results of nano-level analysis.

Weak coupling polymer

Strong coupling polymer



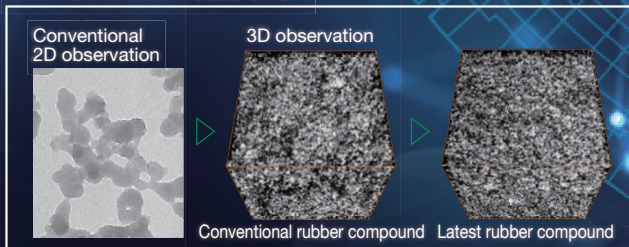
Design strong coupling polymers based on the results of tanδ comparison between different polymer species. Adopted as new fuel-efficient nano materials.

### Nano-level research / observation

#### Research

Accurate observation of fillers and polymers that comprise tire compounds at the nano level.

Filler network 3D measurement



Rubber network structure 3D observation. Latest compounds form fillers with more uniformity.

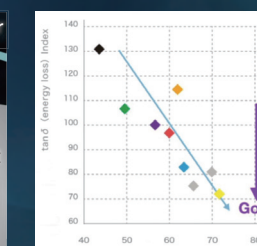
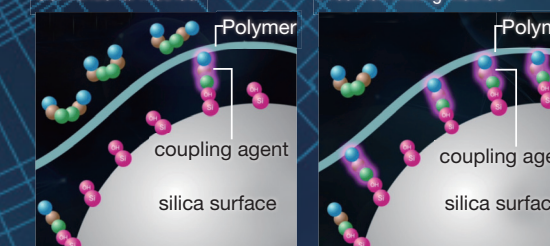
### Nano-level production control

#### Control

Maximizing silica performance requires precision mixing to control coupling agent reaction.

Conventional method

Precision mixing method



Better coupling efficiency -> less energy loss


Establishing a higher coupling efficiency mixing method

# T-MODE

Intelligent Tire Development Platform


## Simulation Infrastructure Technology

**Numerical simulation of aerodynamics**  
[Wind-tunnel alternative technology]



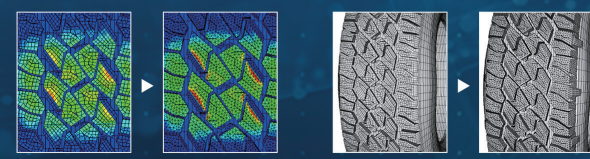
More accurate simulation of the air flow resulting from the rolling tire contact patch shape

**Numerical simulation of tire traction on snow**  
[Environmental wind tunnel technology]



Highly accurate simulations of snow traction performance in various environments are possible

**Structural Analysis**  
[In-house program]



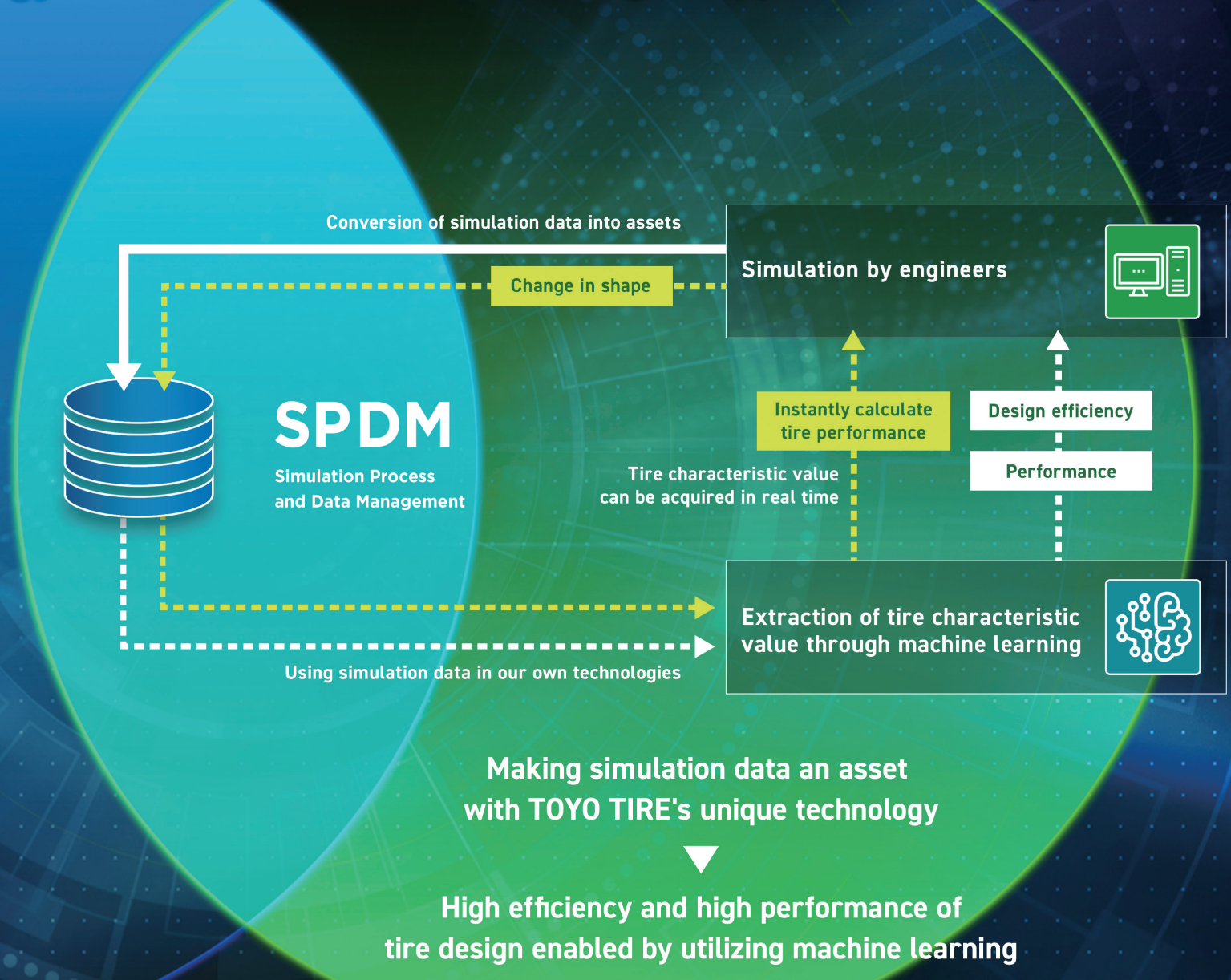
More detailed simulation of deformation behaviors of tread pattern is possible

**HPC Technology** [High-Performance Computing]

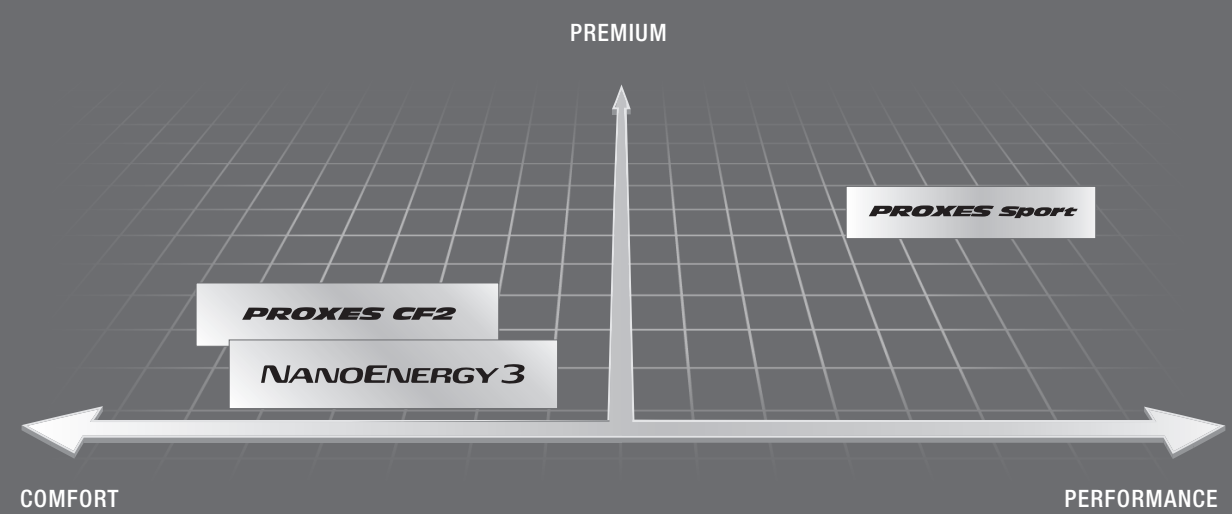
Massively parallel supercomputer + Massively parallel supercomputing technology

Processing ability quadrupled, automatic generation of machine learning data  
Enhancement of massively parallel supercomputing technology and multiplex processing power

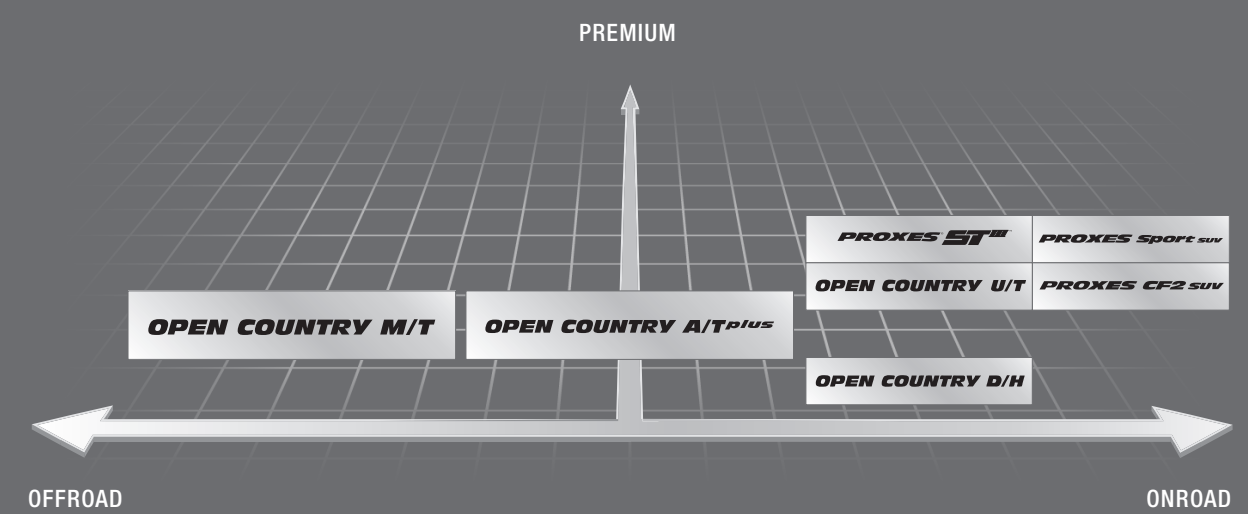
## Design Support Technology



# SUMMER RANGE OVERVIEW



SUMMER CAR TIRE PRODUCT MAP



SUV & 4x4 TIRE PRODUCT MAP

**PROXES**

PROXES SPORT  
Page 18 - 21

PROXES CF2  
Page 22 - 23

**NANOENERGY**

NANOENERGY 3  
Page 24 - 25

**OPEN COUNTRY**

OPEN COUNTRY U/T  
Page 28 - 29

OPEN COUNTRY D/H  
Page 30 - 31

OPEN COUNTRY A/T PLUS  
Page 32 - 33

OPEN COUNTRY M/T  
Page 34 - 35

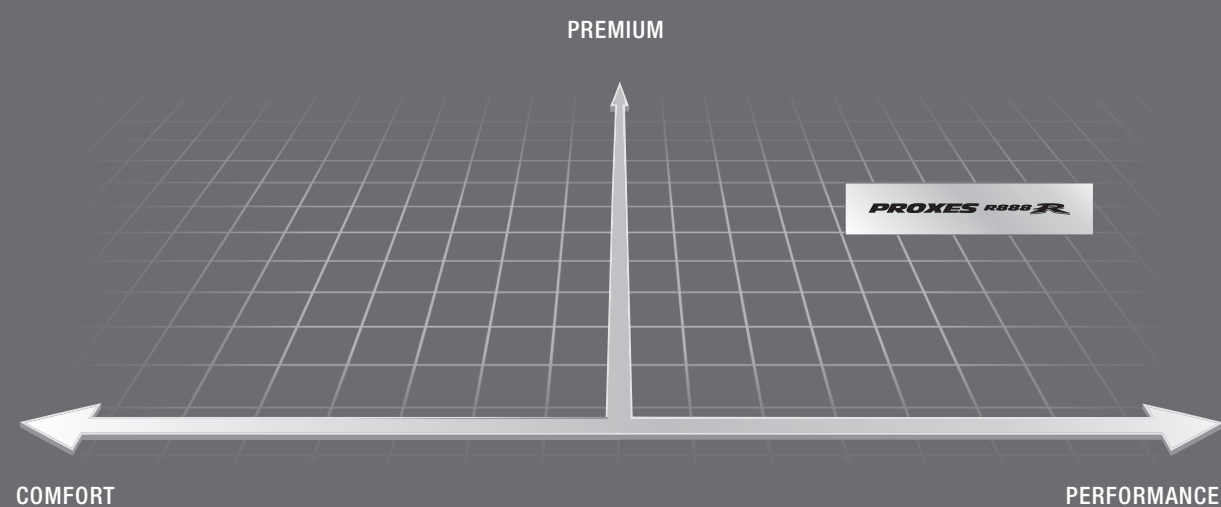
**PROXES**

PROXES ST III  
Page 36 - 37

PROXES SPORT SUV  
Page 38 - 41

PROXES CF2 SUV  
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# COMPETITION RANGE OVERVIEW



COMPETITION TIRE PRODUCT MAP

**PROXES**

PROXES R888R



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# ORIGINAL EQUIPMENT OVERVIEW

Optimum products can only be obtained if you know what demands they are expected to fulfil. For that reason we concentrate on the perfect combination of road and tires. It goes without saying that each tire undergoes an extensive research, development and test phase to achieve this.

Only repeatedly tried and tested high quality and effective materials can produce the road performance which has distinguished us for years. We make the highest demands not only of road performance and safety, but also of attractive design so you can expect innovation from TOYO TIRES for a first-class driving experience.

Tire Size	Pattern	Maker	Model	Model Year
195 R15 106S	Toyo H07	Toyota	Hiace	2004/12-
P215/55 R17 93V	Proxes R35	Toyota	Avalon	2014/3-2017/10
225/55 R18 98H	Proxes R44	Mitsubishi	Eclipse Cross	2017/12-
225/55 R18 98H	Proxes R44	Mitsubishi	RVR	2019/8-
245/65 R17 111S	Open Country A28	Mitsubishi	Triton	2018/7-
265/60 R18 110H	Open Country A32	Mitsubishi	Pajero Sport	2016/10-
225/55 R18 98H	Toyo R37	Mitsubishi	Outlander	2013/6-2018/6
185/55 R15 82V	Toyo R27	Mazda	2	2010/11 - 2014/10
205/60 R16 92V	NanoEnergy R38	Mazda	3	2013/6-
215/45 R18 89W	Proxes R51	Mazda	3	2019/1-
205/55 R16 91V	Toyo J48	Mazda	5	2014/4 - 2017/12
225/55 R17 97V	Proxes R54	Mazda	6	2018/2-
215/50 R18 92V	Proxes R40	Mazda	CX-3	2015/2 - 2018/6
215/50 R18 92V	Proxes R52	Mazda	CX-3	2018/2-
225/55 R19 99V	Proxes R36	Mazda	CX-5	2014/3 - 2017/5
225/55 R19 99V	Proxes R46	Mazda	CX-5	2017/1-
215/55 R18 95H	Proxes R56	Mazda	CX-30	2019/7-
255/60 R18 108S	Open Country A33	Isuzu	D-MAX	2016/3-
275/55 R20 113H	Open Country HTD	Ford	Expedition/Navigator	2017/8-

## ORIGINAL EQUIPMENT OVERVIEW



### **OPEN COUNTRY A28**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
17	245/65 R17	111	S	○	7.0-8.5	752



### **OPEN COUNTRY A32**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	265/60 R18	110	H	-	7.5-9.5	775



### **TOYO R37**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	225/55 R18	98	H	-	6.0-8.0	705



### **OPEN COUNTRY A33**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	255/60 R18	108	S	-	7.0-9.0	763



### **TOYO H07C**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
15	195 R15	106	S	-	5.0-6.0	693



### **PROXES R35**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
17	P215/55 R17	93	V	-	6.0-7.5	668



### **PROXES R46**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
19	225/55 R19	99	V	-	6.0-8.0	731



### **PROXES R36**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
19	225/55 R19	99	V	-	6.0-8.0	731



### **PROXES R40**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	215/60 R18	92	V	-	6.0-7.5	673



### **TOYO J48** TYJ48C for Mazda 3. TYJ48E for Mazda 5

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
16	205/55 R16	91	V	-	6.5	632



### **NANOENERGY R38**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
16	205/60 R16	92	V	-	5.5-7.5	652

## ORIGINAL EQUIPMENT OVERVIEW



### **TOYO R27**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
15	185/55 R15	82	V	-	5.0-6.0	586



### **OPEN COUNTRY HTD**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
20	275/55 R20	113	H	-	7.5-9.5	810



### **PROXES R44**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	225/55 R18	98	H	-	6.0-8.0	705



### **PROXES R52**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	215/50 R18	92	V	-	6.0-7.5	673



### **PROXES R56**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	215/55 R18	95	H	-	6.0-7.5	693



### **PROXES R51**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
18	215/45 R18	89	W	-	7.0-8.0	651



### **PROXES R54**

INCH	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
17	225/55 R17	97	V	-	6.0-8.0	680



# SUMMER CAR TIRES

PROXES SPORT

PROXES CF2

NANOENERGY 3



# PROXES Sport



Answering the need for superior handling, Proxes Sport was designed as a focused, sports performance tire.

High speed handling and wet grip are the core requirements for drivers of the most powerful cars. Proxes Sport was developed to meet these critical needs while still delivering ride comfort and mileage.

Utilizing Nano Balance Technology, Proxes Sport features an all-new compound delivering grip, wet or dry. The advanced tire construction, combines with an optimized tread pattern design, to offer enhanced steering response and increased driving enjoyment.

Speed Symbols W, Y and (Y). 17 - 20 inch.

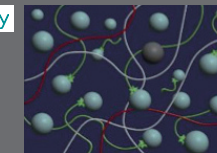
## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE	■	■	■	■	■
RIDE COMFORT	■	■	■	■	■
TREAD LIFE	■	■	■	■	■



### HIGH GRIP CAP COMPOUND

Nano Balance Technology



### DYNAMIC TAPER DESIGN

Grabs road surface firmly



### BARREL ROOF RIB DESIGN

Contributes to even contact pressure distribution



### BENEFITS

1. Enhanced wet performance
2. Stable and responsive handling capabilities
3. Smooth and comfortable ride

PROXES SPORT

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
20	25	285/25ZR20	93	Y	○	10.5	650
		295/25ZR20	95	Y	○	10.0-11.0	656
		305/25ZR20	97	(Y)	○	10.5-11.0	660
	30	265/30ZR20	94	(Y)	○	9.0-10.0	668
		225/35ZR20	90	Y	○	7.5-9.0	666
	35	245/35ZR20	95	(Y)	○	8.0-9.5	680
		255/35ZR20	97	(Y)	○	8.5-10.0	686
		275/35ZR20	102	(Y)	○	9.0-11.0	700
		285/35ZR20	100	(Y)	-	9.5-11.0	708
		245/40ZR20	99	Y	○	8.0-9.5	704
	40	255/40ZR20	101	(Y)	○	8.5-10.0	712
		275/40ZR20	106	(Y)	○	9.0-11.0	728
		245/45ZR20	103	Y	○	7.5-9.0	728
	19	30	255/30ZR19	91	(Y)	○	8.5-9.5
265/30ZR19			93	(Y)	○	9.0-10.0	643
275/30ZR19			96	(Y)	○	9.0-10.0	649
285/30ZR19			98	(Y)	○	9.5-10.5	655
295/30ZR19			100	(Y)	○	10.0-11.0	661
325/30ZR19			105	(Y)	○	11.0-12.0	679
35		225/35ZR19	88	(Y)	○	7.5-9.0	641
		245/35ZR19	93	(Y)	○	8.0-9.5	655
		255/35ZR19	96	(Y)	○	8.5-10.0	661
		265/35ZR19	98	(Y)	○	9.0-10.5	669
		275/35ZR19	100	(Y)	○	9.0-11.0	675
		285/35ZR19	99	(Y)	-	9.5-11.0	683
40		225/40ZR19	93	Y	○	7.5-9.0	663
		235/40ZR19	96	Y	○	8.0-9.5	671
		245/40ZR19	98	(Y)	○	8.0-9.5	679
		255/40ZR19	100	Y	○	8.5-10.0	687
		265/40ZR19	102	(Y)	○	9.0-10.5	695
		275/40ZR19	105	(Y)	○	9.0-11.0	703
45	225/45ZR19	96	(Y)	○	7.0-8.5	685	
	245/45ZR19	102	Y	○	7.5-9.0	703	
18	35	205/35ZR18	81	Y	○	7.5	601
		225/35ZR18	87	Y	○	7.5-9.0	615
		245/35ZR18	92	Y	○	8.0-9.5	629
		255/35ZR18	94	Y	○	8.5-10.0	635
		265/35ZR18	97	(Y)	○	9.0-10.5	643
		275/35ZR18	99	(Y)	○	9.0-11.0	649
	40	225/40ZR18	92	Y	○	7.5-9.0	637
		235/40ZR18	95	(Y)	○	8.0-9.5	645
		245/40ZR18	97	(Y)	○	8.0-9.5	653
		255/40ZR18	99	(Y)	○	8.5-10	661
45	265/40ZR18	101	(Y)	○	9.0-10.5	669	
	275/40ZR18	99	(Y)	-	9.0-11.0	677	
	215/45ZR18	93	Y	○	7.0-8.0	651	
	225/45ZR18	95	(Y)	○	7.0-8.5	659	
	235/45ZR18	98	(Y)	○	7.5-9.0	669	
	245/45ZR18	100	(Y)	○	7.5-9.0	677	
50	235/50ZR18	101	Y	○	6.5-8.5	693	
	205/40ZR17	84	W	○	7.0-8.0	596	
17	40	235/40ZR17	94	Y	○	8.0-9.5	620

PROXES SPORT

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
17	40	245/40ZR17	95	Y	○	8.0-9.5	628
		255/40ZR17	98	Y	○	8.5-10.0	636
	45	205/45ZR17	88	Y	○	6.5-7.5	616
		215/45ZR17	91	W	○	7.0-8.0	626
		225/45ZR17	94	Y	○	7.0-8.5	634
		235/45ZR17	97	Y	○	7.5-9.0	644
		245/45ZR17	99	Y	○	7.5-9.0	652
	50	255/45ZR17	98	Y	-	8.0-9.5	662
		205/50ZR17	93	Y	○	5.5-7.5	638
		215/50ZR17	95	W	○	6.0-7.5	648
		225/50ZR17	98	Y	○	6.0-8.0	658
		235/50ZR17	96	Y	-	6.5-8.5	668
	55	215/55ZR17	98	Y	○	6.0-7.5	668
		225/55ZR17	101	Y	○	6.0-8.0	680
235/55ZR17		99	Y	-	6.5-8.5	690	

SUMMER CAR TIRES



# PROXES CF2



Enjoy superior tire performance and guaranteed levels of safety without compromising on the environment.

Proxes CF2 has been created to take full advantage of latest materials, structures and tread pattern design in order to guarantee a high level of safety, durability, savings and comfort.

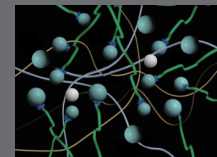
Speed Symbols H, V and W. 13 - 18 inch.

## PERFORMANCE CHARACTERISTICS

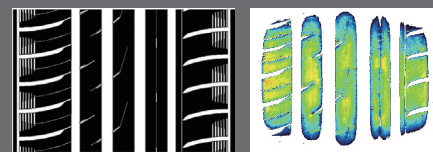
	1	2	3	4	5
DRY PERFORMANCE					
RIDE COMFORT					
TREAD LIFE					



### SILICA COMPOUND FOR WET PERFORMANCE & ROLLING RESISTANCE



### OPTIMIZED TREAD PATTERN DESIGN



### BENEFITS

- 1.Safe and Stable handling on both wet and dry
- 2.Comfortable ride and low noise
- 3.Low fuel consumption for Eco-friendliness

## PROXES CF2

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)	
18	60	225/60 R18	100	W	-	6.0-8.0	727	
	40	215/40 R17	87	V	○	7.0-8.5	604	
17	45	205/45 R17	88	V	○	6.5-7.5	616	
		225/45 R17	94	V	○	7.0-8.5	634	
	50	235/45 R17	94	V	-	7.5-9.0	644	
		205/50 R17	89	V	-	5.5-7.5	638	
		215/50 R17	95	V	○	6.0-7.5	648	
		225/50 R17	98	V	○	6.0-8.0	658	
55	215/55 R17	94	W	-	6.0-7.5	668		
	225/55 R17	97	V	-	6.0-8.0	680		
16	50	195/50 R16	88	V	○	5.5-7.0	602	
		205/50 R16	87	V	-	5.5-7.5	612	
	55	185/55 R16	87	H	○	5.0-6.5	610	
		195/55 R16	91	V	○	5.5-7.0	620	
		205/55 R16	91	V	-	5.5-7.5	632	
		205/55 R16	94	H	○	5.5-7.5	632	
		205/55 R16	94	V	○	5.5-7.5	632	
		215/55 R16	93	V	-	6.0-7.5	642	
	60	225/55 R16	95	V	-	6.0-8.0	654	
		185/60 R16	86	H	-	5.0-6.5	628	
		195/60 R16	89	H	-	5.5-7.0	640	
		205/60 R16	92	V	-	5.5-7.5	652	
		215/60 R16	95	H	-	6.0-7.5	664	
		215/60 R16	99	V	○	6.0-7.5	664	
	15	65	225/60 R16	98	W	-	6.0-8.0	676
			205/65 R16	95	V	-	5.5-7.5	672
		50	195/50 R15	82	H	-	5.5-7.0	577
			55	185/55 R15	82	H	-	5.0-6.5
60		175/60 R15	81	V	-	5.0-6.0	591	
		195/60 R15	88	H	-	5.5-7.0	615	
		205/60 R15	91	H	-	5.5-7.5	627	
		205/60 R15	95	H	○	6.0-7.5	627	
		225/60 R15	96	W	-	6.0-8.0	651	
65		175/65 R15	84	H	-	5.0-6.0	609	
		185/65 R15	88	H	-	5.0-6.5	621	
		195/65 R15	91	H	-	5.5-7.0	635	
	205/65 R15	94	V	-	5.5-7.5	647		
	215/65 R15	96	H	-	6.0-7.5	661		
14	55	185/55 R14	80	H	-	5.0-6.5	560	
		165/60 R14	75	H	-	4.5-6.0	554	
	60	175/60 R14	79	H	-	5.0-6.0	566	
		185/60 R14	82	H	-	5.0-6.5	578	
		195/60 R14	86	H	-	5.5-7.0	590	
	65	175/65 R14	82	H	-	5.0-6.0	584	
		185/65 R14	86	H	-	5.0-6.5	596	
		185/60 R13	80	H	-	5.0-6.5	552	

# NANOENERGY 3



NanoEnergy 3 is the latest addition to the highly advanced NanoEnergy range of tires. The NanoEnergy name signifies tires with environmentally friendly production and performance which maintain high levels of safety, comfort and mileage.

NanoEnergy 3, the result of Nano Balance Technology, is for drivers of compact and mid-range cars looking for a fuel efficient and safe tire.

Speed Symbols T, H, V and W. 13 - 17 inch.

## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE	■	■	■	■	■
RIDE COMFORT	■	■	■	■	■
TREAD LIFE	■	■	■	■	■



### NEW TREAD COMPOUND

Increased Silica and new Low Rolling Resistance Grip Polymer improves wet grip with reduced fuel consumption.

Active Polymer, with improved filler dispersion provide good balance of wear life & low rolling resistance.

### WIDE STRAIGHT GROOVES WITH SILENT WALL

Enhanced aquaplaning resistance.

Reduced noise emission.

### BENEFITS

1. Low fuel consumption for Eco-friendliness
2. Low noise riding
3. Excellent mileage

## NANOENERGY 3

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
17	45	225/45 R17	94	W	○	7.0-8.5	634
	50	205/50 R17	89	V	-	5.5-7.5	638
	55	215/55 R17	94	V	-	6.0-7.5	668
		225/55 R17	97	V	-	6.0-8.0	680
16	50	205/50 R16	87	V	-	5.5-7.5	612
	55	185/55 R16	83	V	-	5.0-6.5	610
		195/55 R16	87	V	-	5.5-7.0	620
		205/55 R16	91	V	-	5.5-7.5	632
		225/55 R16	95	V	-	6.0-8.0	654
	60	215/60 R16	95	V	-	6.0-7.5	664
15	50	195/50 R15	82	V	-	5.5-7.0	577
	55	185/55 R15	82	V	-	5.0-6.5	585
		195/55 R15	85	V	-	5.5-7.0	595
	60	185/60 R15	84	H	-	5.0-6.5	603
		195/60 R15	88	H	○	5.5-7.0	615
	65	205/60 R15	91	H	-	5.5-7.5	627
		185/65 R15	88	H	-	5.0-6.5	621
		185/65 R15	92	T	○	5.0-6.5	621
		195/65 R15	91	H	-	5.5-7.0	635
	70	195/65 R15	95	T	○	5.5-7.0	635
205/65 R15		94	H	-	5.5-7.5	647	
205/70 R15		96	H	-	5.0-7.0	669	
14		60	185/60 R14	82	H	-	5.0-6.5
	65	205/60 R14	88	H	-	5.5-7.5	602
		175/65 R14	82	T	-	5.0-6.0	584
	70	175/65 R14	86	T	○	5.0-6.0	584
		185/65 R14	86	H	-	5.0-6.5	596
	75	185/65 R14	86	T	-	5.0-6.5	596
		195/65 R14	89	T	-	5.5-7.0	610
		175/70 R14	88	T	○	4.5-6.0	602
185/70 R14		88	T	-	4.5-6.0	616	
13	60	195/70 R14	91	T	-	5.0-6.5	630
	65	175/60 R13	77	H	-	5.0-6.0	540
		155/65 R13	73	T	-	4.5-5.5	532
	70	165/65 R13	77	T	-	4.5-6.0	544
		155/70 R13	75	T	-	4.0-5.0	548
165/70 R13	79	T	-	4.0-5.5	562		





## SUV & 4x4 TIRES

PROXES SPORT SUV

PROXES ST III

PROXES CF2 SUV

OPEN COUNTRY U/T

OPEN COUNTRY D/H

OPEN COUNTRY A/T plus

OPEN COUNTRY M/T

SUV & 4x4  
TIRES

# OPEN COUNTRY U/T



OPEN COUNTRY U/T has been developed to satisfy owners of a wide variety of SUVs and Pickups requiring quiet and comfortable ride, stable handling capabilities, and low fuel consumption in urban type of road operations. With its purely functional tread design and special silica tread compound, OPEN COUNTRY U/T has accomplished its design goal of low pattern noise, improved fuel consumption, excellent handling and braking performance on both wet and dry road conditions.

Speed Symbols S, T, H and V. 16 - 21 inch.

## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE					
RIDE COMFORT					
TREAD LIFE					
OFFROAD TRACTION					



**SILICA COMPOUND FOR WET PERFORMANCE & ROLLING RESISTANCE**

**OPTIMIZED PATTERN DESIGN**

### BENEFITS

1. Low pattern noise and comfortable
2. Excellent handling and braking performance.
3. Long and smooth tread wear

## OPEN COUNTRY U/T

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
21	50	275/50 R21	113	V	○	7.5-9.5	809
		245/50 R20	102	V	-	7.0-8.5	754
20	50	285/50 R20	116	V	○	8.0-10.0	794
		275/60 R20	115	V	-	7.5-9.5	838
19	55	225/55 R19	99	V	-	6.0-8.0	731
	60	255/60 R19	109	V	-	7.0-9.0	789
18	55	215/55 R18	99	V	○	6.0-7.5	693
		225/55 R18	98	V	-	6.0-8.0	705
		235/55 R18	104	V	○	6.5-8.5	715
		255/55 R18	109	V	○	7.0-9.0	737
	60	225/60 R18	100	H	-	6.0-8.0	727
		245/60 R18	105	V	-	7.0-8.5	751
		265/60 R18	110	H	-	7.5-9.5	775
		285/60 R18	116	H	-	8.0-10.0	799
	65	255/65 R18	111	H	○	7.0-9.0	789
		265/65 R18	114	H	-	7.5-9.5	801
70	275/65 R18	116	H	-	7.5-9.5	815	
	255/70 R18	113	S	-	6.5-8.5	815	
17	60	265/70 R18	116	H	-	7.0-9.0	829
		215/60 R17	96	V	-	6.0-7.5	690
	65	225/60 R17	99	H	-	6.0-8.0	702
		235/60 R17	102	H	-	6.5-8.5	714
		225/65 R17	102	H	-	6.0-8.0	724
		235/65 R17	104	H	-	6.5-8.5	738
		245/65 R17	111	H	○	7.0-8.5	750
		255/65 R17	110	H	-	7.0-9.0	764
		265/65 R17	112	H	-	7.5-9.5	776
		275/65 R17	115	H	-	7.5-9.5	790
70	285/65 R17	116	H	-	8.0-10.0	802	
	245/70 R17	110	H	-	6.5-8.0	776	
	265/70 R17	115	H	-	7.0-9.0	804	
	LT265/70 R17	121	S	-	7.0-8.5	804	
16	65	245/75 R17	112	S	-	6.5-8.0	800
		215/65 R16	102	V	○	6.0-7.5	686
	70	215/65 R16	98	H	-	6.0-7.5	686
		215/70 R16	100	H	-	5.5-7.0	708
		225/70 R16	103	H	-	6.0-7.5	722
		235/70 R16	106	H	-	6.0-8.0	736
		245/70 R16	111	H	○	6.5-8.0	750
		255/70 R16	111	H	-	6.5-8.5	764
		265/70 R16	112	H	-	7.0-9.0	778
		275/70 R16	114	H	-	7.0-9.0	792
75	265/75 R16	116	T	-	7.0-9.0	804	
	245/75 R16	111	S	-	6.5-8.0	774	
	LT225/75 R16	115	S	-	6.0-7.0	744	
	LT245/75 R16	120	S	-	6.5-8.0	774	

SUV & 4x4  
TIRES



# OPEN COUNTRY D/H



Open Country D/H has been designed to meet the requirement for SUVs operating on not only Highway but also Dune.

With four straight and shallow grooves tread design provide excellent stability, quietness on Highway and superior grip on Dune.

Speed Symbol H. 16 - 17 inch.

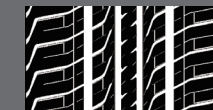
## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE					
RIDE COMFORT					
TREAD LIFE					
OFFROAD TRACTION					

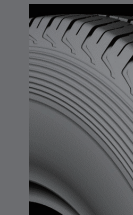


### OPTIMIZED PATTERN DESIGN FOR DUNE AND HIGHWAY

4 main & 2 sub grooves  
Wider tread width



### SIDEWALL PROTECTOR FOR GOOD IMPACT AND CUT RESISTANCE



### BENEFITS

1. Flotation performance on dune
2. Excellent grip for both dune and highway
3. Sidewall protector for good impact and cut resistance

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
17	65	275/65 R17	115	H	-	7.5-9.5	790
		285/65 R17	116	H	-	8.0-10.0	802
16	70	275/70 R16	114	H	-	7.0-9.0	792

SUV & 4x4  
TIRES



# OPEN COUNTRY A/T PLUS



The new premium Open Country A/T Plus is the perfect tire for drivers who want to go wherever the road leads, from highway to the forest.

Its asymmetric five-rib pattern and rigid block design allows for enhanced durability, exceptional high speed on road response and optimized off-road handling.

All-terrain performance is complemented with new technologies that promote a smooth and quiet ride and an aggressive sidewall design to enhance the style of your SUV.

Speed Symbols S, T, H and V. 15 - 21 inch.

## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE	■	■	■	■	■
RIDE COMFORT	■	■	■	■	■
TREAD LIFE	■	■	■	■	■
OFFROAD TRACTION	■	■	■	■	■



### ASYMMETRIC TREAD PATTERN

OUTSIDE - Good off-road traction.

INSIDE - Low Noise. Increased Stability and braking.

### STEP BLOCK EDGE

Good Initial Traction.

### SPECIAL SILICA TREAD COMPOUND

Special silica tread compound provides good wet performance and wear life while maintaining low rolling resistance.

### HIGH TURN UP CASING PLY

Excellent handling and stability.

### BENEFITS

- 1.Enhanced durability
- 2.Optimize both of on-road and off-road condition
- 3.Smooth and quiet ride

# OPEN COUNTRY A/T PLUS

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
21	40	295/40 R21	111	H	○	10.0-11.5	769
	50	275/50 R21	113	H	○	7.5-9.5	809
20	45	275/45 R20	110	H	○	8.5-10.5	756
	50	285/50 R20	116	T	○	8.0-10.0	794
	60	275/60 R20	115	T	-	7.5-9.5	838
19	55	255/55 R19	111	H	○	7.0-9.0	763
18	55	255/55 R18	109	H	○	7.0-9.0	737
		235/60 R18	107	V	○	6.5-8.5	739
		255/60 R18	112	H	○	7.0-9.0	763
	60	265/60 R18	110	T	-	7.5-9.5	775
		285/60 R18	120	T	○	8.0-10.0	799
	65	LT275/65 R18	113	S	-	7.5-9.0	815
70	255/70 R18	113	T	-	6.5-8.5	815	
17	60	215/60 R17	96	V	-	6.0-7.5	690
	65	225/65 R17	102	H	-	6.0-8.0	724
		235/65 R17	108	V	○	6.5-8.5	738
		245/65 R17	111	H	○	7.0-8.5	750
		255/65 R17	110	H	-	7.0-9.0	764
	70	275/65 R17	115	H	-	7.5-9.5	790
		245/70 R17	114	H	○	6.5-8.0	776
	75	265/70 R17	115	T	-	7.0-9.0	804
		LT265/70 R17	121	S	-	7.0-8.5	804
		LT285/70 R17	121	S	-	7.5-9.0	832
75	LT245/75 R17	121	S	-	6.5-7.5	800	
16	60	235/60 R16	100	H	-	6.5-8.5	688
	65	215/65 R16	98	H	-	6.0-7.5	686
		255/65 R16	109	H	-	7.0-9.0	738
	70	215/70 R16	100	H	-	5.5-7.0	708
		225/70 R16	103	T	-	6.0-7.5	722
		235/70 R16	106	T	-	6.0-8.0	736
		245/70 R16	111	H	○	6.5-8.0	750
		255/70 R16	111	T	-	6.5-8.5	764
	75	265/70 R16	112	H	-	7.0-9.0	778
		225/75 R16	104	T	-	6.0-7.5	744
		LT225/75 R16	115	S	-	6.0-7.0	744
	85	LT215/85 R16	115	S	-	5.5-7.0	772
LT235/85 R16		120	S	-	6.0-7.5	806	
15	70	205/70 R15	96	S	-	5.0-7.0	669
		215/70 R15	98	T	-	5.5-7.0	683
		265/70 R15	112	T	-	7.0-9.0	753
75	215/75 R15	100	T	-	5.5-7.0	703	
	225/75 R15	102	T	-	6.0-7.5	719	
	235/75 R15	109	T	○	6.0-8.0	733	
	LT235/75 R15	116	S	-	6.0-7.0	733	
80	215/80 R15	102	T	-	5.5-7.0	725	
	30X950 R15	104	S	-	6.5-8.5	750	
-	-	31X1050 R15	109	S	-	7.0-9.0	775

SUV & 4x4 TIRES

# OPEN COUNTRY M/T



Off-road tires for extreme terrain use. Specially designed tread blocks for optimum traction and self-cleaning. Reinforced sides protect against cutting and collision damage.

Speed Symbols P and Q. 15 - 20 inch.

**POR - Professional Off Road use.**

## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE					
RIDE COMFORT					
TREAD LIFE					
OFFROAD TRACTION					



### AGGRESSIVE, ATTACK TREAD DESIGN WITH HOOK SHAPED BLOCKS

Delivers excellent off-road traction and great on-road performance.

### OPEN, SCALLOPED SHOULDER BLOCKS

Bite into the ground and help to eject mud, snow, and rocks while maintaining off-road traction.

### OVER-THE-SHOULDER TREAD

Provides additional forward traction in deep mud and snow.

### DEEP SIPING IN THE TREAD BLOCKS

Help maintain grip on wet surfaces.

### HIGH TURN-UP, 3-PLY POLYESTER CASING

Strengthens tire to provide excellent handling and durability while maintaining proper load capacity.

### BENEFITS

- 1.Enhanced Mud performance
- 2.Tuff construction for off road
- 3.Exceptionally comfortable ride

## OPEN COUNTRY M/T

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
20	-	33X1250 R20	114	Q	-	8.5-11.0	832
		35X1250 R20	121	Q	-	8.5-11.0	883
		37X1350 R20	127	Q	-	9.5-12.0	934
18	70	LT275/70 R18	121	P	-	7.0-8.5	849
		LT275/70 R18	125	P	-	7.0-8.5	849
	-	33X1250 R18	118	Q	-	8.0-10.5	832
17	70	37X1350 R18	124	Q	-	9.0-11.5	934
		38X1550 R18	128	Q	-	11.0-14.0	959
		LT265/70 R17	118	P	-	7.0-8.5	810
16	70	LT265/70 R17	121	P	-	7.0-9.0	810
		LT295/70 R17	121	P	-	7.5-10.0	852
		LT305/70 R16	118	P	-	8.0-9.5	840
	75	LT305/70 R16	124	P	-	8.0-10.0	834
		LT225/75 R16	115	P	-	6.0-7.0	750
		LT245/75 R16	120	P	-	6.5-8.0	780
		LT245/75 R16	120	P	-	6.5-8.0	780
		LT265/75 R16	119	P	-	7.0-8.0	810
		LT265/75 R16	123	P	-	7.0-8.0	810
	85	LT285/75 R16	116	P	-	7.5-9.0	840
		LT285/75 R16	126	P	-	7.5-9.5	840
		LT315/75 R16	121	P	-	8.0-10.5	884
15	-	LT235/85 R16	120	P	-	6.0-7.5	812
		LT235/85 R16	120	P	-	6.0-7.5	812
		LT255/85 R16	119	P	-	6.5-8.0	846
	LT255/85 R16	123	P	-	6.5-8.0	846	
	31X1050 R15	109	P	-	7.0-9.0	781	
	31X1050 R15	109	Q	-	7.0-9.0	781	
	33X1050 R15	114	P	-	7.0-9.0	832	
	33X1250 R15	108	P	-	8.5-11.0	832	
	35X1350 R15	114	Q	-	9.0-11.5	883	

\*POR Spec Only



SUV & 4x4  
TIRES

# PROXES ST<sup>III</sup>



Proxes ST<sup>III</sup> has been developed as New generation Premium Sporty tire for SUVs / CUVs, trucks.

Proxes ST<sup>III</sup> has unidirectional design for both tread and sidewall with aggressive and sporty image.

Not only good design, it also provides improved wet braking performance as an important safety feature.

Speed Symbols V and W. 16 - 22 inch.

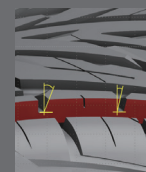
## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE					
RIDE COMFORT					
TREAD LIFE					
OFFROAD TRACTION					



### AGGRESSIVE DIRECTIONAL PATTERN

### DIRECTIONAL BLOCK ON SHOULDER RIB



### WIDER TREAD WIDTH

#### BENEFITS

1. Aggressive & Sporty Tread and Sidewall design
2. Improved handling capabilities
3. Enhanced Wet braking performance

## PROXES ST<sup>III</sup>

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
22	35	285/35 R22	106	W	○	9.5-11.0	759
	35	315/35 R20	110	W	○	10.5-12.5	728
20	40	275/40 R20	106	W	○	9.0-11.0	728
		295/40 R20	110	V	○	10.0-11.5	744
	45	295/45 R20	114	V	○	9.5-11.0	774
		245/50 R20	102	V	-	7.0-8.5	754
	50	255/50 R20	109	V	○	7.0-9.0	764
		265/50 R20	111	V	○	7.5-9.5	774
285/50 R20		116	V	○	8.0-10.0	794	
55	275/55 R20	117	V	○	7.5-9.5	810	
19	50	255/50 R19	107	V	○	7.0-9.0	739
18	55	255/55 R18	109	V	○	7.0-9.0	737
		235/60 R18	107	V	○	6.5-8.5	739
	60	245/60 R18	105	V	-	7.0-8.5	751
		265/60 R18	114	V	○	7.5-9.5	775
17	60	225/60 R17	103	V	○	6.0-8.0	702
	65	235/65 R17	108	V	○	6.5-8.5	738
16	60	235/60 R16	104	V	○	6.5-8.5	688
	65	215/65 R16	102	V	○	6.0-7.5	686

SUV & 4x4  
TIRES

# PROXES Sport SUV



**NEW**

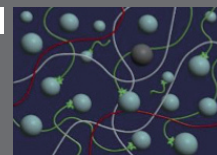
## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE					
RIDE COMFORT					
TREAD LIFE					



### HIGH GRIP CAP COMPOUND

Nano Balance Technology



### DYNAMIC TAPER DESIGN

Grabs road surface firmly



### BARREL ROOF RIB DESIGN

Contributes to even contact pressure distribution



### BENEFITS

1. Enhanced wet performance
2. Stable and responsive handling capabilities
3. Smooth and comfortable ride

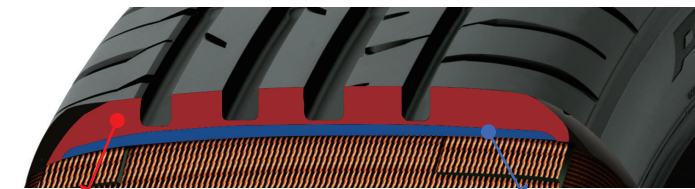
Answering the need for superior handling, PROXES Sport SUV was designed as a focused, sports performance tire.

High speed handling and wet grip are the core requirements for drivers of the most high performance SUV. PROXES Sport SUV was developed to meet these critical needs while still delivering ride comfort and mileage.

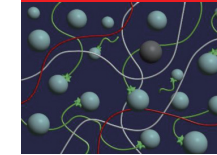
Utilizing Nano Balance Technology, PROXES Sport SUV features an all-new compound delivering grip, wet or dry. The advanced tire construction, combines with an optimized tread pattern design, to offer enhanced steering response and increased driving enjoyment.

Speed Symbols V, W and Y. 17 - 22 inch.

## New compound

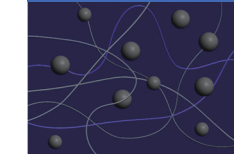


### High grip cap compound



Higher content of silica and special elastomer tightly bonding with silica improve wet grip performance.

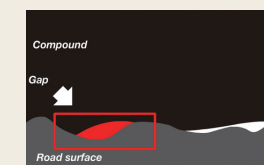
### Rigidity base compound



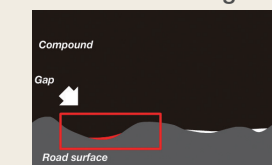
Blending of high rigid elastomer for the control of heat generation while maintaining compound rigidity results in responsive handling capabilities.

## High grip cap compound

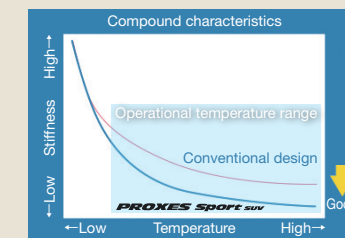
### Conventional design



### PROXES Sport SUV with new design

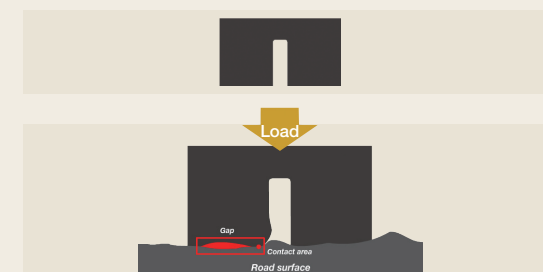


New compound featuring special elastomer minimizes gap by its flexibility and improves adhesion on the road surface, resulting in enhanced handling performance



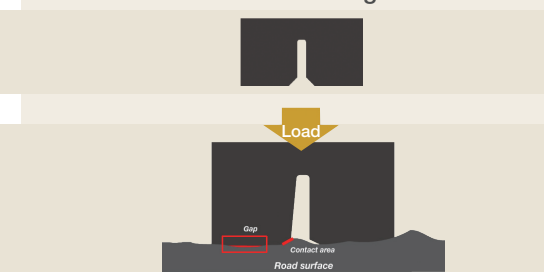
## Mechanism of Dynamic taper design

### Conventional design



Localized deformation at block edge causes uneven contact pressure distribution and decrease block stiffness.

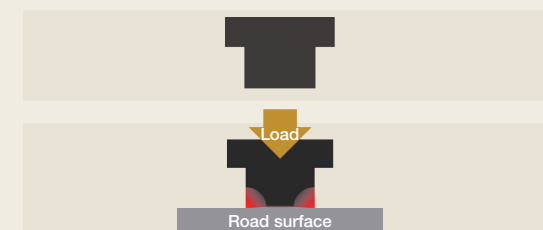
### PROXES Sport SUV with new design



Dynamic taper design grab road surface firmly, resulting in even contact pressure distribution and increased block stiffness.

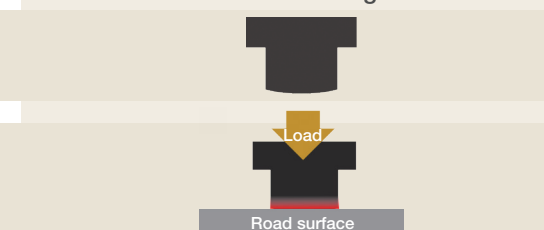
## Mechanism of Barrel roof-rib design

### Conventional design



Uneven contact force at both block edge causes uneven contact pressure distribution on tread surface.

### PROXES Sport SUV with new design



Barrel roof-rib design contributes to even contact pressure distribution.

PROXES SPORT SUV

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)
22	30	295/30 R22	103	Y	○	10.0-11.0	737
		265/35 R22	102	Y	○	9.0-10.5	745
	35	275/35 R22	104	Y	○	9.0-11.0	751
		285/35 R22	106	Y	○	9.5-11.0	759
		40	295/40 R22	112	Y	○	10.0-11.5
21	30	325/30 R21	108	Y	○	11.0-12.0	729
		285/35 R21	105	Y	○	9.5-11.0	733
	35	295/35 R21	107	Y	○	10.0-11.5	739
		255/40 R21	102	Y	○	8.5-10.0	737
		275/40 R21	107	Y	○	9.0-11.0	753
	40	295/40 R21	111	Y	○	10.0-11.5	769
		265/45 R21	104	Y	-	8.5-10.0	771
		20	315/35 R20	110	Y	○	10.5-12.5
295/40 R20			110	Y	○	10.0-11.5	744
20	45	255/45 R20	105	Y	○	8.0-9.5	738
		265/45 R20	108	Y	○	8.5-10.0	746
		275/45 R20	110	Y	○	8.5-10.5	756
	50	255/50 R20	109	Y	○	7.0-9.0	764
		265/50 R20	111	Y	○	7.5-9.5	774
	55	235/55 R20	102	W	-	6.5-8.5	766
	19	45	255/45 R19	104	Y	○	8.0-9.5
275/45 R19			108	Y	○	8.5-10.5	731
285/45 R19			111	Y	○	9.0-10.5	739
50		235/50 R19	99	W	-	6.5-8.5	719
		255/50 R19	107	Y	○	7.0-9.0	739
		265/50 R19	110	Y	○	7.5-9.5	749
		235/55 R19	105	Y	○	6.5-8.5	741
55		255/55 R19	111	Y	○	7.0-9.0	763
		275/55 R19	111	W	-	7.5-9.5	785
		18	55	235/55 R18	100	V	-
255/55 R18	109			Y	○	7.0-9.0	737
60	235/60 R18		107	W	○	6.5-8.5	739
	265/60 R18		110	V	-	7.5-9.5	775
17	55	275/55 R17	109	V	-	7.5-9.5	734
	60	255/60 R17	110	W	○	7.0-9.0	738
		215/65 R17	99	V	-	6.0-7.5	712
	65	235/65 R17	108	W	○	6.5-8.5	738

PROXES SPORT SUV

SUV & 4x4  
TIRES



# PROXES CF2 SUV



The all new Proxes CF2 SUV benefits from improved tire construction and a new full-silica tread compound.

The tire has a longer tire life, better wet performance and lower fuel consumption.

Speed Symbols S, H, V and W. 15 - 20 inch.

## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE					
RIDE COMFORT					
TREAD LIFE					
OFFROAD TRACTION					



### 4 WIDE CIRCUMFERENTIAL GROOVES

Good aquaplaning resistance.

### RIB PATTERN

High stability.  
Excellent Braking.  
Low Noise.

### WIDE TREAD

High Stability.  
Good Tread Wear.

### TREAD COMPOUND

Good wet performance and wear life with low rolling resistance.

### JOINTLESS CAP PLY

High Speed Durability.  
Precise Uniformity.

### HIGH HARDNESS BEAD FILLER

Linear Steering Response.  
Durability.

### BENEFITS

1. Comfortable ride and low noise
2. Low fuel consumption for Eco-friendliness
3. High mileage for SUV

## PROXES CF2 SUV

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)	
20	40	245/40 R20	99	W	○	8.0-9.5	704	
	45	245/45 R20	103	W	○	7.5-9.0	728	
19	45	225/45 R19	96	W	○	7.0-8.5	685	
		235/45 R19	95	V	-	7.5-9.0	695	
18	55	225/55 R19	99	V	-	6.0-8.0	731	
		215/50 R18	92	V	-	6.0-7.5	673	
	60	225/60 R18	95	W	-	6.0-8.0	683	
		225/55 R18	98	V	-	6.0-8.0	705	
17	55	235/55 R18	100	V	-	6.5-8.5	715	
		225/60 R18	100	H	-	6.0-8.0	727	
	65	225/65 R18	103	H	-	6.0-8.0	749	
		235/65 R18	106	H	-	6.5-8.5	763	
	16	55	215/55 R17	94	V	-	6.0-7.5	668
			225/55 R17	101	V	○	6.0-8.0	680
		60	235/55 R17	99	V	-	6.5-8.5	690
			215/60 R17	96	H	-	6.0-7.5	690
65		215/60 R17	96	V	-	6.0-7.5	690	
		225/60 R17	99	H	-	6.0-8.0	702	
15	60	235/60 R17	102	H	-	6.5-8.5	714	
		225/65 R17	102	H	-	6.0-8.0	724	
	65	225/65 R17	106	V	○	6.0-8.0	724	
		205/60 R16	92	H	-	5.5-7.5	652	
	70	215/60 R16	95	H	-	6.0-7.5	664	
		235/60 R16	100	H	-	6.5-8.5	688	
	80	215/65 R16	98	H	-	6.0-7.5	686	
		225/65 R16	100	H	-	6.0-8.0	698	
15	70	215/70 R16	100	H	-	5.5-7.0	708	
	80	175/80 R16	91	S	-	4.5-6.0	686	
15	70	205/70 R15	96	H	-	5.0-7.0	669	
		215/70 R15	98	H	-	5.5-7.0	683	
80	175/80 R15	90	S	-	4.5-6.0	661		



SUV & 4x4  
TIRES



# COMPETITION TIRES

PROXES R888R

COMPETITION  
TIRES

# PROXES R888R



The Proxes R888R delivers increased dry grip and steering performance for track use.

The tire offers a quick warm up and sustained handling over multiple laps and heat cycles. The improved performance gives a competitive advantage on dry tracks.

Speed Symbols V, W, Y and (Y). 13 - 20 inch.

## PERFORMANCE CHARACTERISTICS

	1	2	3	4	5
DRY PERFORMANCE	■	■	■	■	■
WET PERFORMANCE	■	■	■	■	■
BRAKING	■	■	■	■	■
TREAD LIFE	■	■	■	■	■



### OUTER TREAD AREA

Large tread block on outer area.  
Enhanced dry cornering.  
Increased lateral limit.

### GG COMPOUND

Fast warm up time.

### WIDE CENTRE RIB

Precise steering response.

### BENEFITS

- Enhanced racing capabilities in quicker lap time.
- Fast warm-up time for best grip condition



## PROXES R888R

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)		
20	30	285/30ZR20	95	*	-	9.5-10.5	680		
		315/30ZR20	101	*	-	10.5-11.5	698		
19	30	285/35ZR20	100	*	-	9.5-11.0	708		
		265/30ZR19	93	Y	○	9.0-10.0	643		
		295/30ZR19	100	Y	○	10.0-11.0	661		
		305/30ZR19	102	*	○	10.5-11.5	667		
		325/30ZR19	101	*	-	11.0-12.0	679		
	35	345/30ZR19	105	*	-	11.5-12.5	691		
		245/35ZR19	89	*	-	8.0-9.5	655		
		265/35ZR19	94	*	-	9.0-10.5	669		
		275/35ZR19	96	*	-	9.0-11.0	675		
		18	30	295/30ZR18	98	Y	○	10.0-11.0	635
315/30ZR18	98			Y	-	10.5-11.5	647		
335/30ZR18	102			Y	-	11.5-12.5	659		
35	255/35ZR18		94	Y	○	8.5-10.0	635		
	275/35ZR18		95	Y	-	9.0-11.0	649		
	225/40ZR18		92	Y	○	7.5-9.0	637		
40	235/40ZR18		95	Y	○	8.0-9.5	645		
	245/40ZR18		97	Y	○	8.0-9.5	653		
	17		40	205/40ZR17	84	W	○	7.0-8.0	596
				235/40ZR17	94	W	○	8.0-9.5	620
255/40ZR17		98		W	○	8.5-10.0	636		
45		275/40ZR17	98	W	-	9.0-11.0	652		
		205/45ZR17	88	W	○	6.5-7.5	616		
16	45	215/45ZR17	91	W	○	7.0-8.0	626		
		225/45ZR17	94	W	○	7.0-8.5	634		
		235/45ZR17	94	W	-	7.5-9.0	644		
	50	205/50ZR17	89	W	-	5.5-7.5	638		
		205/45ZR16	83	W	-	6.5-7.5	590		
	55	225/45ZR16	93	W	○	7.0-8.5	608		
		245/45ZR16	94	W	-	7.5-9.0	626		
		195/50ZR16	84	W	-	5.5-7.0	602		
	15	50	205/50ZR16	87	W	-	5.5-7.5	612	
			205/55ZR16	94	W	○	5.5-7.5	632	
195/50 R15			82	V	-	5.5-7.0	577		
55		205/50ZR15	89	W	○	5.5-7.5	587		
		225/50ZR15	91	W	-	6.0-8.0	607		
		235/50ZR15	94	W	-	6.5-8.5	617		
		195/55 R15	85	V	-	5.5-7.0	595		
14	60	195/55 R15	89	V	○	5.5-7.0	595		
		185/60 R14	82	V	-	5.0-6.5	578		
13	60	185/60 R13	80	V	-	5.0-6.5	552		
		205/60 R13	86	V	-	5.5-7.5	576		

COMPETITION TIRES





PROXES R888R



PROXES R888R

## CAUTION:

The rubber compounds used in these tires have unique properties that can cause them to lose some of their flexibility when used or handled in temperatures below -9°C. This loss in flexibility can lead to potential cracking and other damage to the tire.

To minimise the chances of this happening, consumers and installers are advised to follow the instructions below:

1. Do not move or operate a vehicle fitted with these tires in temperatures below -9°C.
2. Avoid moving these tires in temperatures below -9°C
3. Before mounting or dismounting, store these tires for at least 24 hours in a temperature controlled environment of 20°C or warmer and always inspect for signs of cracking before mounting. Never use tires that have cracked.
4. Remove the wheels from the vehicle and deflate the tires to half the normal air pressure during prolonged periods of inactivity or for storage.
5. Aquaplaning and wear are good for a competition tire but are inferior to a normal road tire. Because of this, Proxes R888R is not recommended for everyday road use. For best performance, Proxes R888R should be changed after two seasons maximum, irrespective of wear.



COMPETITION  
TIRES



# COMMERCIAL VAN RADIAL TIRE

NANOENERGY VAN

COMMERCIAL VAN RADIAL  
TIRE

# NANOENERGY VAN



**NEW**

NANOENERGY VAN apply new tread compound which enhance wet performance and fuel efficiency. These, combined with a strengthened casing and innovative tread design, result in a longer lasting tire.

1. Enhanced wet performance
2. Improved wear life and durability
3. Lower rolling resistance

**Reliable and Economy Summer Van tire**



#### LARGE SHOULDER RIB

Improves wear performance with high rib Stiffness.

#### DOUBLE ZIGZAG RIB

Improves wear performance with high rib Stiffness.

#### 3D MULTI-WAVE SIPES

Suppress the movement of the block, thus providing good cornering performance

#### DYNAMIC TAPER

Enhances firm contact on road surface

## NANOENERGY VAN

INCH	ASPECT RATIO	TIRE SIZE	LOAD INDEX	SPEED SYMBOL	RF/XL	APPROVED RIM WIDTH (Inch)	OVERALL DIAMETER (mm)	
17	55	225/55 R17C	109/107	H	-	6.5-7.5	680	
	60	215/60 R17C	109/107	T	-	6.0-7.0	690	
		235/60 R17C	117/115	R	-	6.5-7.5	714	
16	60	195/60 R16C	99/97	H	-	5.5-6.5	640	
		215/60 R16C	103/101	T	-	6.0-7.0	664	
		225/60 R16C	111/109	T	-	6.5-7.5	676	
	65	195/65 R16C	104/102	T	-	5.5-6.0	660	
		205/65 R16C	107/105	T	-	5.5-6.5	672	
		215/65 R16C	109/107	T	-	6.0-7.0	686	
		225/65 R16C	112/110	T	-	6.0-7.0	698	
		235/65 R16C	115/113	S	-	6.5-7.5	712	
	70	215/70 R16C	108/106	T	-	5.5-7.0	708	
		75	175/75 R16C	101/99	S	-	4.5-5.5	668
			185/75 R16C	104/102	S	-	5.0-6.0	684
			195/75 R16C	107/105	T	-	5.0-6.0	698
195/75 R16C		110/108	R	-	5.0-6.0	698		
205/75 R16C		113/111	R	-	5.5-6.5	714		
215/75 R16C		116/114	R	-	5.5-7.0	728		
225/75 R16C		121/120	R	-	6.0-7.0	744		
15		65	205/65 R15C	102/100	T	-	5.5-6.5	647
			215/65 R15C	104/102	T	-	6.0-7.0	661
	70	195/70 R15C	104/102	S	-	5.0-6.0	655	
		205/70 R15C	106/104	S	-	5.5-6.5	669	
		215/70 R15C	109/107	S	-	5.5-7.0	683	
		225/70 R15C	112/110	S	-	6.0-7.0	697	
	75	225/75 R15C	110/108	Q	-	6.0-7.0	719	
		185 R15C	103/102	R	-	5.0-6.0	674	
		195 R15C	106/104	S	-	5.0-6.0	690	
		14	65	175/65 R14C	90/88	T	-	5.0-5.5
165/70 R14C	89/87			R	-	4.5-5.0	588	
70	175/70 R14C		95/93	T	-	4.5-5.5	602	
	165/75 R14C		97/95	R	-	4.0-5.0	604	
75	185/75 R14C		102/100	S	-	5.0-6.0	634	
	195/75 R14C		106/104	S	-	5.0-6.0	648	
-	175 R14C		99/98	S	-	4.5-5.5	634	
	185 R14C		102/100	S	-	5.0-6.0	650	
	195 R14C		106/104	S	-	5.0-6.0	666	
	205 R14C		109/107	S	-	5.5-6.5	686	
	215 R14C	112/110	S	-	5.5-7.0	700		
13	70	165/70 R13C	88/86	R	-	4.5-5.0	562	

COMMERCIAL VAN RADIAL TIRE



# LIGHT TRUCK RADIAL, TRUCK AND BUS RADIAL TIRES

LIGHT TRUCK RADIAL,  
TRUCK AND BUS RADIAL TIRES

# LTR LIGHT TRUCK RADIAL TIRES

Product Line



## Application Chart

### Highway Rib



### Highway Traction



## HIGHWAY RIB M53

This rib-type highway tire for all positions features its wider tread with a special compound that gives a long tread life. The tapered shoulder of the M53 improves handling while its strong steel belt improves safety.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
16	750 R16	121/120N	12PR	TT	BL	11.6	807	216	375	231	5.50 - 6.50
15	700 R15	105/101L	-	TL	BL	11.0	752	192	350	214	5.00 - 6.50

[TYPE] TT: TUBE TYPE, TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

All products of Toyo Tires are subject to continuous development. Toyo Tires reserves the right to change construction, materials or specifications without notice or obligation.



## HIGHWAY RIB M131

This rib-type highway tire has been developed for all positions use on commercial vehicles. Its uniform tread wear and special tread compound ensure long tire life and high-speed durability. The M131, with its straight ribs, multi-sipes on the edge of each rib and U-shaped grooves, improves wet performance exceptionally.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
16	700 R16	117/116N	12PR	TT	BL	11.1	778	198	362	214	4.50 - 6.00
	700 R16	113/111N	10PR	TT	BL	11.1	778	198	362	214	4.50 - 6.00
	700 R16	109/108N	8PR	TT	BL	11.1	778	198	362	214	4.50 - 6.00
15	650 R16	108/107N	10PR	TT	BL	10.6	748	175	348	190	4.50 - 5.50
	700 R15	-	12PR	TT	BL	11.0	752	192	350	214	5.50
15	700 R15	-	10PR	TT	BL	11.0	752	192	350	214	5.50

[TYPE] TT: TUBE TYPE

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M134

The M134 is a highway-rib tire for use in all positions on light commercial vehicles. Its wide rib pattern with square shoulders and optimized tread profile designed by "e-balance" technology ensure improved irregular wear resistance and long wear life. Excellent casing durability of the tire has been achieved with its optimized casing profile.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
17.5	225/60 R17.5	116/114L	-	TL	BL	9.7	719	213	334	235	6.00 - 6.75
	215/70 R17.5	118/116N	12PR	TL	BL	9.7	750	213	349	230	6.00 - 6.75

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M140Z

The M140Z, TOYO TIRES' highway rib, has been developed to emphasize its improved wear performance and retreadability in a wide variety of operating conditions ranging from short, middle to long highway hauls. Its new casing construction, profile, functional straight rib tread appearance and compound designed under DSOC II, TOYO TIRES' advanced tire design technology, contribute to M140's excellent performance over the competitors.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
16	825 R16	128/126L	-	TT	BL	12.3	855	227	398	252	6.00 - 6.50
	750 R16	123/121L	14PR	TT	BL	11.7	803	209	373	228	5.50 - 6.50

[TYPE] TT: TUBE TYPE, TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY TRACTION M608Z

The low-profile M608Z has an aggressive traction pattern for drive axles and also offers longer tread life owing to its large contact area and deeper tread.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
17.5	215/75 R17.5	126/124M	-	TL	BL	15.4	781	215	363	235	6.00 - 6.75
	205/75 R17.5	124/122M	-	TL	BL	14.9	768	202	357	220	5.25 - 6.75

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M143

The M143 has been developed under DSOC II, TOYO TIRES' advanced tire design technology, to deliver excellent overall performance in severe operating conditions. It has been designed especially for excellent wear performance and improved casing durability.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
17.5	235/75 R17.5	132/130M	-	TL	BL	13.0	803	233	362	254	6.75 - 7.50
	225/75 R17.5	129/127M	-	TL	BL	13.0	793	225	369	245	6.00 - 6.75
	215/75 R17.5	126/124M	-	TL	BL	12.5	776	212	361	231	6.00 - 6.75
	205/75 R17.5	124/122M	-	TL	BL	12.1	761	202	354	220	5.25 - 6.75
	9.5 R17.5	129/127L	-	TL	BL	11.6	838	230	390	251	6.00 - 6.75

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY TRACTION M614

The M614 is a traction tire for highway driving. It offers superior grip and driving stability on both wet and dry roads. Its special tread compound and even wear assure long tread life.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
16	700 R16	-	12PR	TT	BL	14.5	785	193	365	213	5.50 - 6.50
	700 R16	-	10PR	TT	BL	14.5	785	193	365	213	5.50 - 6.50
	750 R16	-	14PR	TT	BL	15.0	814	209	379	229	5.50 - 6.00

□: M614ZB

[TYPE] TT: TUBE TYPE, TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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# TBR TRUCK AND BUS RADIAL TIRES

Product Line



## PREMIUM HIGHWAY RIB

# M170

The M170 is the latest Premium Rib TBR for long to middle haul truck and bus applications. With "e-balance", TOYO TIRES' own tire design technology, the M170 delivers improved wear life without causing irregular wear. Optimized tread design and casing improve the foot print shape and the contact pressure distribution for smooth wear and reduce the stress concentration in the casing for improved retread-ability.

### Longer and smooth wear life for long to middle haul Truck and Bus operations

#### 1. Longer Wear life

Wear oriented compound and increased tread volume improve wear life more than 20% over previous product.

#### 2. Improved irregular wear resistance

Optimized tread design and casing profile by e-balance tire design technology improves foot print shape and contact pressure distribution for smooth tread wear.

#### 3. Excellent casing durability

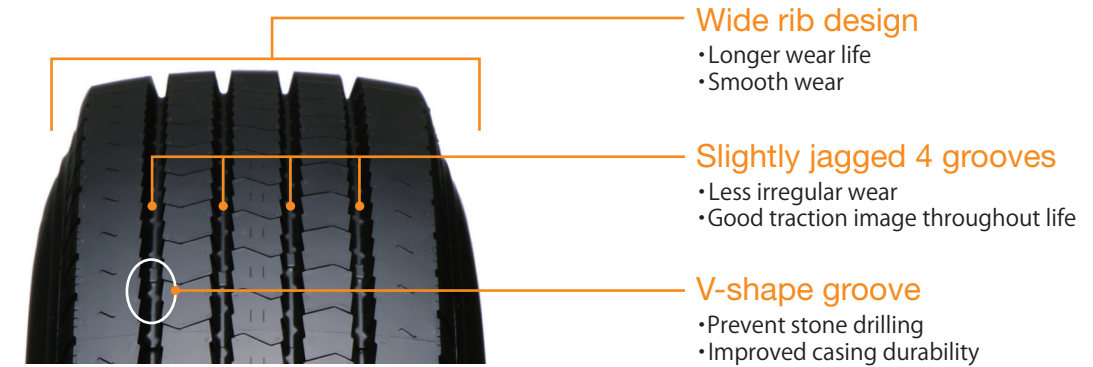
New bead construction by e-balance and less heat build-up in tread area enhance the casing durability for better retread-ability.

#### 4. Improved resistance against stone drilling

New groove design efficiently eject packed stone in grooves, resulting in less belt damage and better retread-ability.



## Tread Design



## Application Chart

	Steer	Drive	Trailer
Highway	M144 M170	M632 M605Z	M149 (Super Single) M1430 (Low-Platform Trailer)
Regional		M632 M605Z	M160
On / Off	M320 M311	M506 M320 M311	M320 (Super Single) M6100Z (Low-Platform Trailer)
	M71D	M56 M71D	M311 M71D
City Bus		M317Z M316Z	

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	12 R22.5	152/148L	16PR	TL	BL	15.1	1076	314	500	341	8.25 - 9.00
	11 R22.5	148/145L	16PR	TL	BL	15.0	1048	282	487	309	7.50 - 8.25
	10 R22.5	141/139L	-	TL	BL	14.9	1016	255	472	279	6.75 - 8.25
	9 R22.5	133/131L	-	TL	BL	13.7	970	230	451	250	6.00 - 7.50

□: M170Z

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M144

The M144/M144A, TOYO TIRES' highway rib tire, has been developed to deliver exceptional high mileage and improved irregular wear performance in mid-to-long highway haul operations. Its special differential-grooves in the shoulder ribs are combined with an optimum casing profile to effectively resist irregular wear and ensure long tread life. Developed under DSOCII, TOYO TIRES' advanced tire design technology, the M144/M144A satisfy users' needs in this segment ensuring highly competitive low cost mileage performance and better retreadability.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	315/70 R22.5	152/148M	-	TL	BL	15.0	1017	318	473	338	9.00 - 9.75
	315/80 R22.5	154/150M	-	TL	BL	15.1	1082	312	503	339	9.00 - 9.75
	295/80 R22.5	152/148M	-	TL	BL	15.1	1054	303	490	339	8.25 - 9.00

□: M144A

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M140Z

The M140Z, TOYO TIRES' highway rib, has been developed to emphasize its improved wear performance and retreadability in a wide variety of operating conditions ranging from short, middle to long highway hauls. Its new casing construction, profile, functional straight rib tread appearance and compound designed under DSOC II, TOYO TIRES' advanced tire design technology, contribute to M140's excellent performance over the competitors.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	275/70 R22.5	148/145M	-	TL	BL	13.6	962	275	447	294	7.50 - 8.25

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M160A

The M160A has been developed for all wheel positions on highway use. Its optimally distributed ribs with open slits and multiple sipes provide irregular wear resistance. The M160A also has superior wear life and resistance to tear, cut and chip by special compound.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
24	1200 R24	156/153K	18PR	TT	BL	14.5	1214	318	565	349	8.50 - 9.00

[TYPE] TT: TUBE TYPE

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M149

The M149, a super single trailer tire, has been developed to deliver superior wear performance with improved durability under tough operating conditions on trailers or front axle usage ranging from local to national haul operations. With the state-of-the-art TBR design technology, i.e., FEM analysis and systematic field evaluations, the M149 has been carefully designed and successfully accomplished its design goal as a new generation super single.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	385/65 R22.5	160K	-	TL	BL	15.9	1079	376	502	397	11.75 - 12.25

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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### Local haul transport & City bus applications HIGHWAY RIB

## M317Z

Toyo M317Z is the latest generation TBR for Local haul transport & City bus operation with low maintenance and trouble free features, succeeding popular M316Z of the same category. With optimized wide tread pattern design and new tread compound, M317Z improves wear resistance for longer wear life and reduces irregular wear. It also saves more fuel by improved rolling resistance. Deeper sipes and multi pitch groove applied to main grooves maintain good WET and traction performance throughout the wear life.



RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	275/70 R22.5	148/145J	-	TL	BL	16.2	967	275	450	294	7.50 - 9.00

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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### Local haul transport & City bus applications HIGHWAY RIB

## M316Z

This special tire has been designed for long tread life. Its wide tread and deep main grooves, coupled with a wear-resistant tread compound, ensure outstanding mileage. The thick sidewall rubber of the M316Z helps protect the tire from damage resulting from contact with curbs. The M316Z also provides quiet and comfortable ride.



RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	275/80 R22.5	148/145K	-	TL	BL	16.4	1023	277	476	302	7.50 - 8.25

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## PREMIUM TRACTION M632

The M632 is the Premium Traction TBR for Long to Middle haul truck applications. Designed by "e-balance", TOYO TIRES' advanced tire design technology, the M632 delivers long wear life with excellent traction performance on drive axles. Moreover its low-stress casing construction by "e-balance" generates less heat in service, resulting in improved retread-ability.

### Product features

#### Improved Wear Performance and Long Life

Optimized Casing Profile by using "e-balance profile retention technology" minimizes growth of the tread area and maintains uniform and flatter tread radius during service, while New Tread Design which is designed by "e-balance simulation technology" provides even contact pressure distribution across the tread surface, resulting in smooth wear and long wear life.

#### Superior Casing Durability

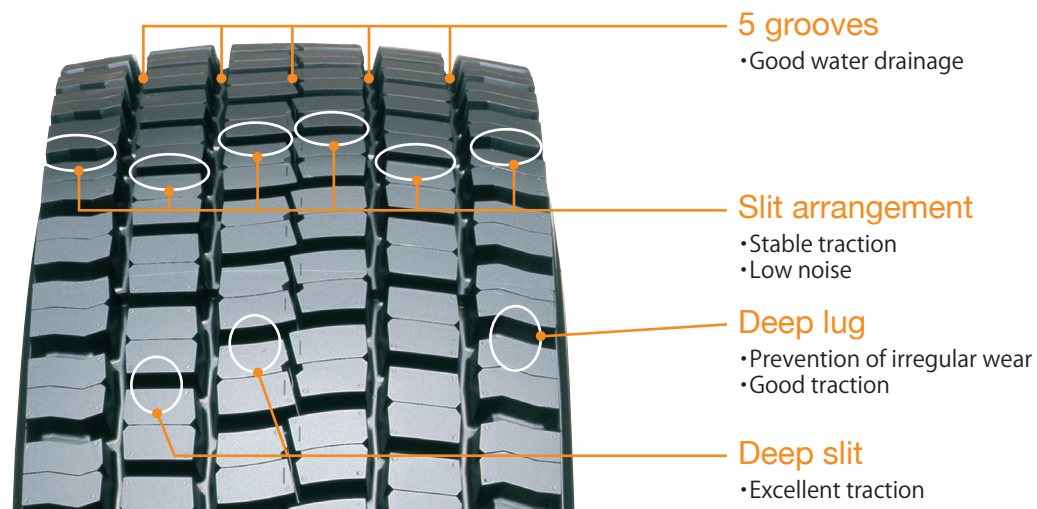
The casing profile established through "e-balance technology" and special Cap and Base Tread Compound reduce shear strain at belt edge area and excessive heat build-up inside tire structure during running, thus providing superior casing durability and retreadability.

#### Excellent Irregular Wear Resistance and Long Life

The block shape optimized block stiffness by minimized difference of friction energy between leading and trailing edge provides good irregular resistance, as the result, M632 achieves long wear life.



### Tread Design



RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	315/80 R22.5	154/150M	-	TL	BL	22.7	1096	316	510	339	9.00 - 9.75
	315/70 R22.5	152/148M	-	TL	BL	20.3	1027	313	478	342	9.00 - 9.75
	295/80 R22.5	152/148M	-	TL	BL	22.2	1069	303	497	328	8.25 - 9.00
	295/60 R22.5	150/147L	-	TL	BL	18.0	927	290	431	310	9.00 - 9.75

[TYPE] TT: TUBE TYPE, TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY TRACTION M605Z

The M605Z is an aggressive drive tire with deep tread for exceptional mileage with powerful traction for highway operations. Its special compound and advanced casing design are combined for long casing life.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	295/80 R22.5	152/148M	-	TL	BL	22.1	1067	303	496	328	8.25 - 9.00
	11 R22.5	148/145L	-	TL	BL	20.7	1061	280	495	304	7.50 - 8.25

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY TRACTION M608

The low-profile M608 has an aggressive traction pattern for drive axles and also offers longer tread life owing to its large contact area and deeper tread.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	9 R22.5	136/134L	-	TL	BL	15.0	973	227	452	245	6.00 - 7.50
	285/70 R19.5	145/143M	-	TL	BL	16.4	896	290	418	300	7.50 - 9.00
19.5	265/70 R19.5	140/138L	-	TL	BL	15.9	872	267	407	280	6.75 - 7.50
	245/70 R19.5	136/134N	-	TL	BL	15.4	844	240	392	259	6.75 - 7.50
	225/70 R19.5	128/126N	-	TL	BL	15.9	821	212	382	228	6.00 - 6.75
	225/70 R19.5	125/123N	-	TL	BL	15.9	821	212	382	228	6.00 - 6.75

□: M608Z

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

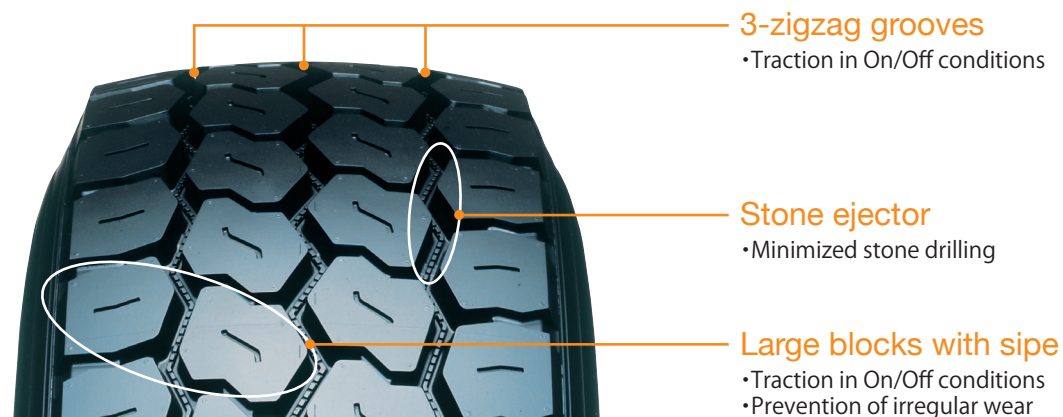
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## ON AND OFF M320

The M320 has been developed for On-and-Off road conditions to provide good cut and chip resistance and long wear life. Its optimized casing profile created by DSOC II, TOYO TIRES' advanced tire design technology, delivers low stress distribution in tire casing resulting in improved retread-ability. The M320 is applicable to a variety of vehicles such as dump trucks, concrete mixers or transport trucks in short to middle hauling operations.

### Tread Design



**3-zigzag grooves**

•Traction in On/Off conditions

**Stone ejector**

•Minimized stone drilling

**Large blocks with sipe**

•Traction in On/Off conditions  
•Prevention of irregular wear

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	385/65 R22.5	160K	-	TL	BL	17.6	1079	382	503	397	11.75 - 12.25
	315/80 R22.5	156/150K	-	TL	BL	18.5	1092	312	508	339	9.00 - 9.75
	275/70 R22.5	148/145J	-	TL	BL	16.6	965	276	451	294	7.50 - 8.25
	12 R22.5	150/147K	-	TL	BL	18.5	1085	306	505	322	8.25 - 9.00

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## ON AND OFF M311

TOYO M311 - New On/Off - Highway All position TBR with improved wear performance and cut/chip resistance.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	12 R22.5	152/148K	16	TL	BL	15.5	1081	226	525	330	8.25 - 9.00
	13 R22.5	154/150K	-	TL	BL	15.5	1122	233	545	341	9.00 - 9.75

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## ON AND OFF M56

The M56 is an extra deep tread tire for drive-axle positions in on-and-off highway use. Its powerful pattern and extra deep tread with special tread compound provide outstanding traction, longer tire life and strong resistance to cuts, chips and punctures. The M56 is best suitable for logging, mining and dump trucks.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
24	1200 R24	156/153K	18PR	TT	BL	17.9	1221	318	568	349	8.50 - 9.00

[TYPE] TT: TUBE TYPE

[SIDE WALL] BL: BLACK LETTERS

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## ON AND OFF M71D

The M71D has been developed for all wheel positions in on-and-off highway use. Its rib-lug tread pattern provides good traction and higher mileage and reduces heat generation.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
24	1200 R24	156/153K	18PR	TT	BL	16.2	1214	318	565	349	8.50 - 9.00

[TYPE] TT: TUBE TYPE

[SIDE WALL] BL: BLACK LETTERS

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## ON AND OFF M506

A deep tread drive tire, the M506 delivers outstanding durability, even wear and retreadability. It has been especially designed for the tough on-and-off highway use as well as logging and construction operations. Its special cap compound and wide center block pattern reduce cutting and chipping on rough terrain.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
22.5	13 R22.5	156/150G	-	TL	BL	25.1	1120	317	522	349	9.00 - 9.75
	12 R22.5	152/148G	-	TL	BL	25.1	1097	306	510	322	8.25 - 9.00
	11 R22.5	148/145G	-	TL	BL	24.1	1070	286	499	309	7.50 - 8.25

□: M506Z

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## HIGHWAY RIB M143

The M143 has been developed under DSOC II, TOYO TIRES' advanced tire design technology, to deliver excellent overall performance in severe operating conditions. It has been designed especially for excellent wear performance and improved casing durability.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
19.5	285/70 R19.5	145/143M	-	TL	BL	13.5	890	284	414	300	7.50 - 9.00
	265/70 R19.5	140/138M	-	TL	BL	13.0	868	260	404	276	6.75 - 7.50
	245/70 R19.5	136/134M	-	TL	BL	12.5	843	244	392	262	6.75 - 7.50
	225/70 R19.5	128/126N	-	TL	BL	13.0	815	212	379	228	6.00 - 6.75
	225/70 R19.5	125/123N	-	TL	BL	13.0	815	212	379	228	6.00 - 6.75

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## LOW PLATFORM TRAILER HIGHWAY RIB M1430

The M1430 has been developed under DSOC II, TOYO TIRES' advanced tire design technology, to deliver excellent overall performance in severe operating conditions. It has been designed especially for excellent wear performance and improved casing durability.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
19.5	265/70 R19.5	143/141J	-	TL	BL	13.0	868	260	404	276	6.75 - 7.50
	245/70 R17.5	143/141J	-	TL	BL	12.5	799	242	372	262	6.75 - 7.50
17.5	235/75 R17.5	143/141J	-	TL	BL	12.1	803	233	373	254	6.75 - 7.50
	215/75 R17.5	135/133J	-	TL	BL	11.6	774	212	351	231	6.00 - 6.75
	95 R17.5	143/141J	-	TL	BL	12.5	838	230	376	251	6.00 - 6.75

[TYPE] TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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## LOW PLATFORM TRAILER ON AND OFF M6100Z

The M6100Z tire is for low platform trailers with on-and-off road use. It has a stone ejector groove, rib-lug tread pattern, wider tread and flatter tread radius for improved chipping resistance, longer tread life and performance.

RIM DIA.	TIRE SIZE	LOAD INDEX / SPEED SYMBOL	PLY RATING	TYPE	SIDE WALL	TREAD DEPTH (mm)	INFLATED DIMENSION		LOADED DIMENSION		ALTERNATE RIM WIDTH (Inch)
							OVERALL DIA. (mm)	OVERALL WIDTH (mm)	STATIC RADIUS (mm)	STATIC WIDTH (mm)	
17.5	10 R17.5	143/141J	-	TL	BL	14.0	859	246	399	270	6.75 - 7.50

[TYPE] TL: TUBE TYPE, TL: TUBELESS

[SIDE WALL] BL: BLACK LETTERS

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# GENERAL INFORMATION

## TIRE SIZE DESIGNATIONS

For example :

\*215/60 R 16 95H — Speed Symbol (Max 210km/h)  
 Load Index (690kg)  
 Nominal Rim Diameter (inches)  
 Radial Construction  
 Aspect Ratio (60%)  
 Nominal Section Width (mm)

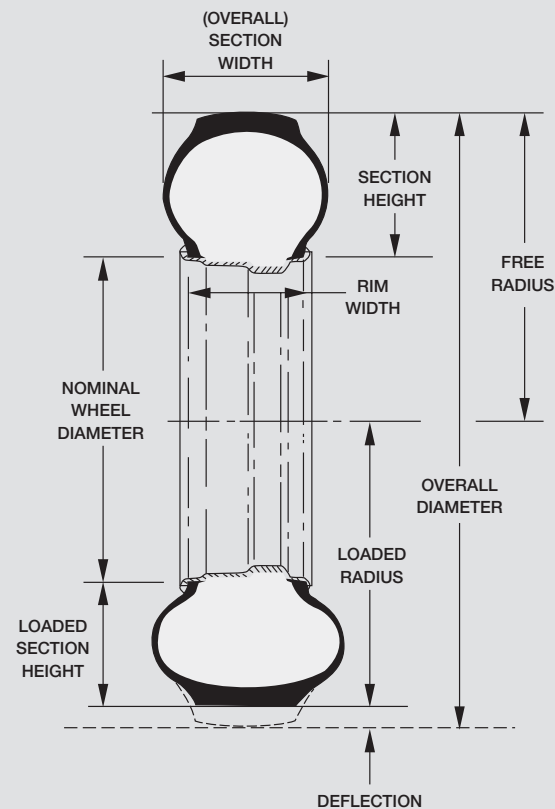
\*235/65 R 16 C — Commercial Vehicle Type Tire  
 Nominal Rim Diameter (Inches)  
 Radial Construction  
 Aspect Ratio (65%)  
 Nominal Section Width (mm)

\*P 205/55 R 16 — Nominal Rim Diameter (inches)  
 Radial Construction  
 Aspect Ratio (55%)  
 Nominal Section Width (mm)  
 Passenger Car Type Tire  
 \* LT : Light Truck Type Tire

\*35 X 12.50 R 17 — Nominal Rim Diameter (inches)  
 Radial Construction  
 Nominal Section Width (inches)  
 Nominal Overall Diameter (inches)

\*11 R 22.5 148/146L — Speed Symbol (120km/h)  
 Load Index (single/dual)  
 Nominal Rim Diameter (inches)  
 Radial Construction  
 Nominal Section Width (inches)

\*295/80 R 22.5 152/148M — Speed Symbol (130km/h)  
 Load Index (single/dual)  
 Nominal Rim Diameter (inches)  
 Radial Construction  
 Aspect Ratio (80%)  
 Nominal Section Width (mm)



## PLY RATING

"Ply Rating" is used to identify a given tire with its maximum recommended load when used in a specific type of service. It is an index of tire strength and does not necessarily represent the number of cord plies in the tire.

## LOAD RANGE DESIGNATION - PLY RATING EQUIVALENCY TABLE

The Load Range is merely a letter used to correspond with a ply rating.

PLY RATING	2	4	6	8	10	12	14	16	18	20	22	24
LOAD RANGE	A	B	C	D	E	F	G	H	J	L	M	N

## SAFETY PRECAUTIONS

### Usage Recommendations for TOYO TIRES Semi Racing Tires and Drag Radial Tires.

#### STREET USE

Semi racing and drag radial tires are designed with a reduced tread depth and a special tread rubber compound for optimal dry weather traction. Therefore, it is important to frequently check the available tread depth because semi racing and drag radial tires will wear out much sooner and offer less wet weather grip than regular passenger-car tires. Never use these tires, or any tires, on the street if they are worn down to the wear indicator bars, i.e., the available tread depth is no more than 1.6mm (2/32nds of an inch). Use extreme caution and reduced speeds when driving in wet conditions. Never mix bias and radial tires on the same vehicle.

### Recommendation on the Proper Use and Handling of Certain TOYO TIRES (PROXES R888/R888R)

This advisory addresses the proper use and handling of these tires in colder climates. Tires exposed to temperatures below -9°C will lose rubber compound flexibility. Under certain conditions, it may even experience cracking (see image right).

The rubber compounds used in these tires have unique properties that, when compared to other tires, can cause them to lose some of their flexibility when used or handled in conditions below -9°C. This loss in flexibility can lead to potential cracking and other damage to the tire.



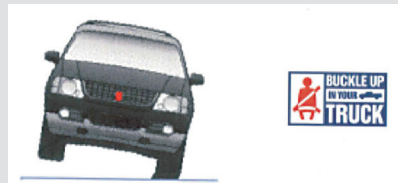
**TO MINIMIZE THE CHANCES OF THIS HAPPENING, CONSUMERS AND INSTALLERS ARE ADVISED TO FOLLOW THESE INSTRUCTIONS:**

1. Do not move or operate the car with these tires in conditions below -9°C.  
**ALWAYS INSPECT FOR SIGNS OF CRACKING! NEVER USE TIRES THAT HAVE CRACKED!**
2. Avoid moving these tires in conditions below -9°C.
3. Before mounting or dismounting, store these tires for at least 24 hours in a temperature-controlled environment of 20°C or warmer, and **ALWAYS INSPECT FOR SIGNS OF CRACKING! NEVER USE TIRES THAT HAVE CRACKED!**
4. Remove these tires from the vehicle and deflate to half the normal air pressure during prolonged periods of non-use or storage.

### Consumer Safety Advisory for Lifted Light Trucks : Rollover Propensity of Lifted Light Trucks

Consumers should be aware that the installation of larger diameter tires, including off-road type tires, combined with modified suspensions (lift kits) for increased off-road ground clearance will adversely affect the handling and maneuverability characteristics of the vehicle compared to the factory-equipped (original) vehicle. When vehicles, especially light trucks, are lifted, the center of gravity is heightened, thus making them more prone to rollover. Rollover propensity is further increased with full passenger and/or cargo loads. Other aspects of handling and maneuverability may also be affected by altering the original manufacturer's design. As with any vehicle, **Extreme Care must be used to prevent loss of control or rollover during sharp turns or abrupt maneuvers.** Always wear seat belts and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. **The installation of larger tire and wheel combinations will reduce the effectiveness of anti-lock braking systems and increase stopping distance. Failure to safely drive any vehicle equipped with a lift kit may result in an accident resulting in serious injury or death.** Do not drive a lifted vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying the lift kit, and state laws before undertaking any vehicle suspension modifications. **You are responsible for the legality and safety of the vehicle you modify using lift kit and tire modifications.**

**WARNING!**



## TIRE CARE AND MAINTENANCE

### Proper care of tires increases road safety and tire life.

Key Advice:

#### Air Pressure

Your safety depends on maintaining the prescribed air pressure. Always follow the recommendations of the vehicle manufacturer unless you have specific written advice from a tire maker.

A tire driven on with insufficient air pressure is a serious safety risk. The increased deformation of the casing leads to excessive heat build up which can result in sudden tire failure. Additionally wear will increase especially in the shoulder area of the tread necessitating premature removal.

Over inflated tires will have reduced road performance and inferior shock absorption. Additionally, wear will increase in the centre of the tread leading to premature removal.

#### Most important points (recommendations):

1. Measure air pressure on cold tires (before driving).
2. Air pressure must correspond to axle load (see operating instructions).
3. Air pressure must be kept equal across an axle.
4. Check air pressure at least once per month.
5. Check air pressure before each long trip and increase by 20 kPa (0.2 bar), so that the tire temperature can be kept low at high speed.
6. After checking air pressure always refit the valve caps, as they prevent dust and dirt from entering and compromising air tightness. Valve caps with a sealing ring are best, as they act as a secondary air seal assisting the tire valves.



## TIRE SIZES, LOADS AND SPEED

### Tire Sizes

The vehicle registration documents often show the tire sizes a vehicle should be supplied with. Taking into account axle load and maximum speed (incl. variation) care should be taken that the tires have the necessary load and speed index. In the case of V/W/Y tires the maximum load deduction (for V max > 210/240/270 km/h) must also be taken into account.

### Loads

Like insufficient air pressure, vehicle overloading can lead to premature wear and tire failure. The vehicle registration documents may detail among other things the maximum kerbside weight of the vehicle in kilograms as well as the maximum axle weight in kilograms for the front and the rear axles. Overloading can easily occur when going on holiday with a full car, roof rack and/or caravan.

LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg
65	290	81	462	97	730	113	1150	129	1850	145	2900
66	300	82	485	98	750	114	1180	130	1900	146	3000
67	307	83	487	99	775	115	1215	131	1950	147	3075
68	315	84	500	100	800	116	1250	132	2000	148	3150
69	325	85	515	101	825	117	1285	133	2060	149	3250
70	335	86	530	102	850	118	1320	134	2120	150	3350
71	345	87	545	103	875	119	1360	135	2180	151	3450
72	355	88	560	104	900	120	1400	136	2240	152	3550
73	365	89	580	105	925	121	1450	137	2300	153	3650
74	375	90	600	106	950	122	1500	138	2360	154	3750
75	387	91	615	107	975	123	1550	139	2430	155	3875
76	400	92	630	108	1000	124	1600	140	2500	156	4000
77	412	93	650	109	1030	125	1650	141	2575	157	4125
78	425	94	670	110	1060	126	1700	142	2650	158	4250
79	437	95	690	111	1090	127	1750	143	2725	159	4375
80	450	96	710	112	1120	128	1800	144	2800	160	4500

### Speed

The tires fitted by a vehicle manufacturer have the appropriate speed symbol considering the maximum speed. It is possible to switch to the same tire size with a higher speed index, but tires should never be substituted for tires with a speed symbol equal to less than the maximum speed of the vehicle (incl. variation).

Exceptions are M+S radial winter tires: in this case, care must be taken not to exceed the speeds indicated by the symbol on the M+S tire. Vehicles capable of higher speed than M+S tire speed symbol indicates, must have a notice, visible to the driver indicating the maximum speeds of the M+S tires. In some countries this is a legal requirement.

Speed Symbol	J	K	L	M	N	P	Q	R	S	T	U	H	V	W	Y	(Y)
Maximum Speed km/h	100	110	120	130	140	150	160	170	180	190	200	210	240	270	300	OVER 300

For applications outside the range of the Y speed symbol, the service conditions (including the actual speed capabilities, load capabilities and the relevant inflation pressure) for vehicle characteristics will be agreed between the vehicle and tyre manufactures when using ZR marked tyres with a service description within brackets, for example "(95Y)".

All uses of Performance characteristics in this catalogue are displayed as a guide only, to allow comparison with other products of the same category. Their purpose is to help select the most appropriate tire. No guarantee of performance can be inferred from these characteristics.

All Toyo brand tires are subject to continuous development. While every effort is made to describe goods and services accurately in this publication, no warranty is given as to accuracy and no responsibility will be accepted for any error or omission. Toyo Tires reserves the right to amend the specification of tires without notice.

