sumitomotyres.co.za

Corporate Overview

SUMITOMO RUBBER INDUSTRIES, LTD.

Headquartered in Japan, Sumitomo Rubber Industries (SRI) is the fifth largest tyre manufacturing company in the world and is responsible for producing and distributing, amongst other high quality products, the iconic Dunlop brand.

First established in 1909 as the Far East Division of Dunlop UK and later incorporated as Dunlop Rubber (Far East) Co. Ltd in 1917, the company became Sumitomo Rubber Industries Ltd. in 1963. In 1985, when Dunlop was taken over by BTR plc, the company acquired the automobile tyre assets of Dunlop, including the right to use the Dunlop brand on car tyres. In 1986, SRI also acquired the Dunlop Tire Corporation of the US from its management. In 2013, SRI acquired Apollo Tyres South Africa (Pty) Ltd as part of its strategic global development plans and renamed the company Sumitomo Rubber South Africa (Pty) Ltd (SRSA).

SRI operates four domestic and several overseas tyre factories with plants in Japan, China, Thailand, Indonesia and Africa as well as new plants in Brazil and Turkey. The company has sales offices in 16 countries and the group comprises of 70 companies in the tyre, sporting goods and industrial product categories.

The SRI Way

Vision 2020:
Become a true global player by achieving both high profitability and high growth.
Pursue increased value for all stakeholders and greater happiness for all employees.

Corporate Philosophy:
In order to fulfil our social responsibilities as a corporate citizen, the Sumitomo Rubber Group will continue to provide new value for all stakeholders while pursuing greater happiness for all of our group employees and contributing to both our communities and to society as a reliable and trusted global corporate group.

The Four Core Values:
- Integrity and soundness
- Communication
- Dedication to long term goals
- Personal development.

SRI Growth Engines:
- The challenges of new markets
- Insatiable drive for innovation
- Entering new business fields.


Head office, Kobe, Japan

Tyre plant, Ladysmith, South Africa

Sumitomo Rubber South Africa (SRSA)

Sumitomo Rubber South Africa (Pty) Ltd. (SRSA) is a division of SRI and has its Head Office in Durban and a factory in Ladysmith. The company produces 2.46 million passenger and light truck tyres a year from this plant.

SRSA is proud to be associated with SRI, which has an outstanding reputation coupled with heavy-duty experience and influence in the tyre industry. With a superb reputation for delivering superior quality and service through its leading Japanese-engineered technological advancements, SRSA provides a tyre brand that offers a unique mix of quality and value.

SRSA tyre brand overview

SUMITOMO RUBBER INDUSTRIES, LTD.

SUMITOMO RUBBER SOUTH AFRICA (PTY) LTD.

DUNLOP SUMITOMO TYRES FALKEN

Headquartered in Durban, SRSA manufactures, markets and distributes Dunlop, Falken* and Sumitomo tyres throughout Africa.

*SRSA has rights for Falken in select African markets.

Contents

This brochure is designed to help users select the most suitable tyres which meet their needs. Useful information is included to assist users in designating appropriate tyre specifications for their vehicles with ease. Enquiries and requests for additional information should be directed to the nearest Sumitomo dealer or Sumitomo representative.

Sumitomo tyres are designed in line with The Japan Automobile Tyre Manufacturers Association, Inc. (JATMA), The Tire and Rim Association, Inc. (TRA) and The European Tyre and Rim Technical Organization (ETRTO).

Sumitomo Tyres
are now available in South Africa!

Sumitomo Tyres, the premium export brand of Sumitomo Rubber Industries, are now available to add to your multi-branded high and ultra-high performance passenger tyre offering in selected patterns.

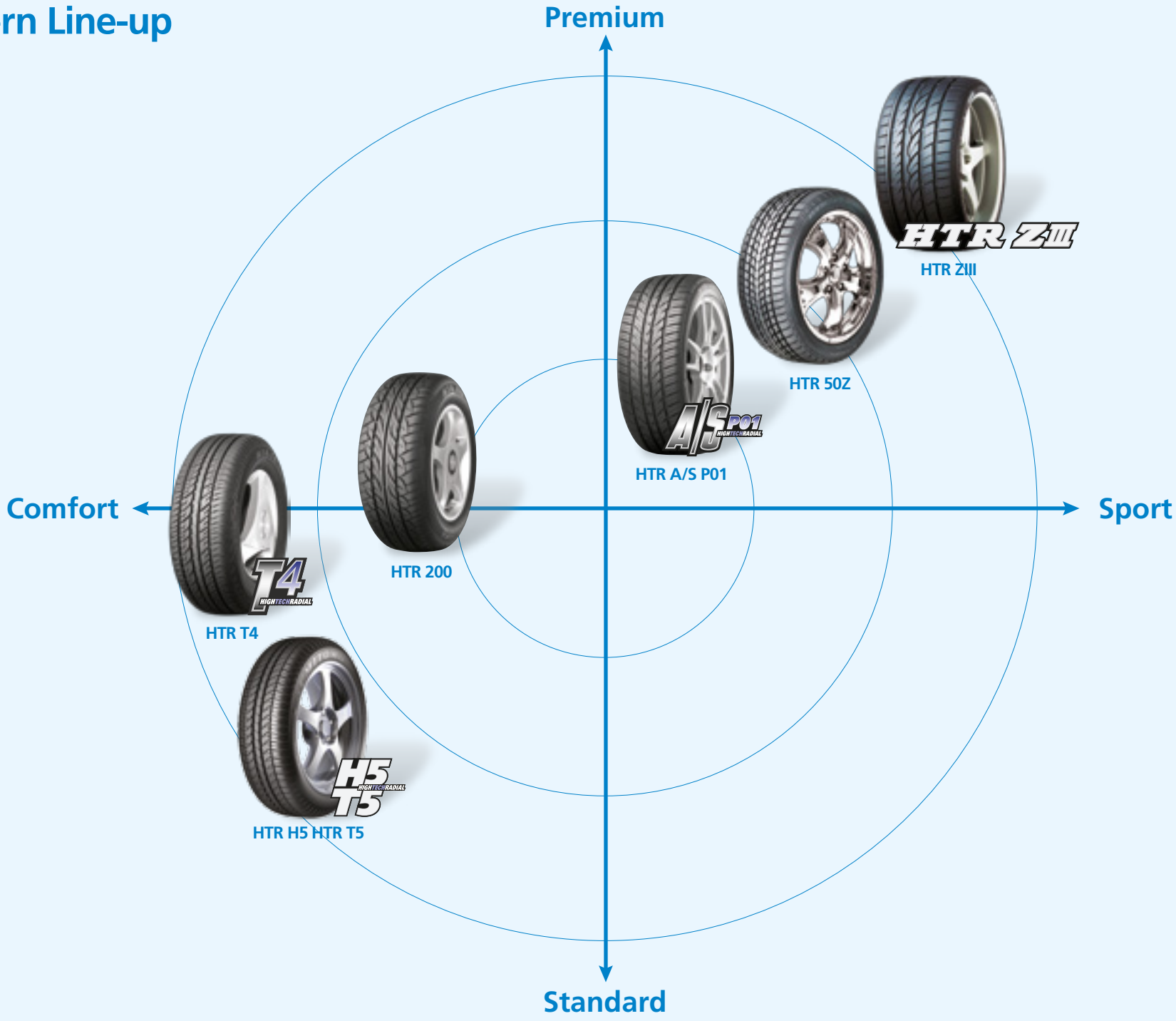
Sumitomo tyres combine affordability with innovative design, precision engineering and superior quality that has seen them achieve success in some of the most demanding export markets worldwide, including the highly competitive North American market.

Now Sumitomo Rubber South Africa brings over 100 years of technical expertise and manufacturing experience to Africa, backed by the global reputation and resources of the Sumitomo Group, one of the most influential business conglomerates in the world.

Sumitomo Tyres – a tradition of performance excellence.
Sumitomo tyres are available at Dunlop Zone stores nationwide and select SRSA affiliated dealerships.

DUNLOP ZONE

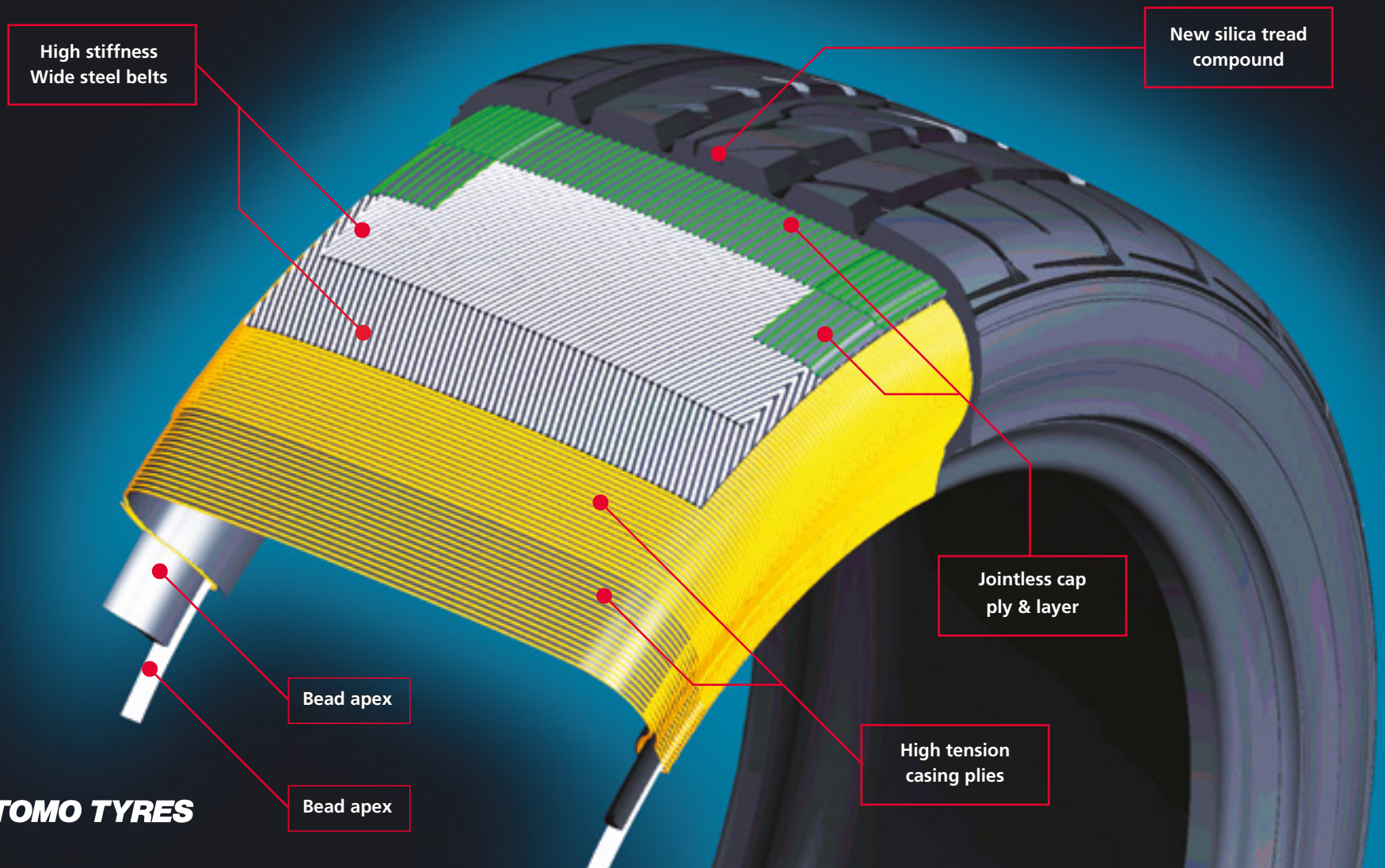
Pattern Line-up



NEW

HTR ZIII

Ultra-high performance flagship tyre



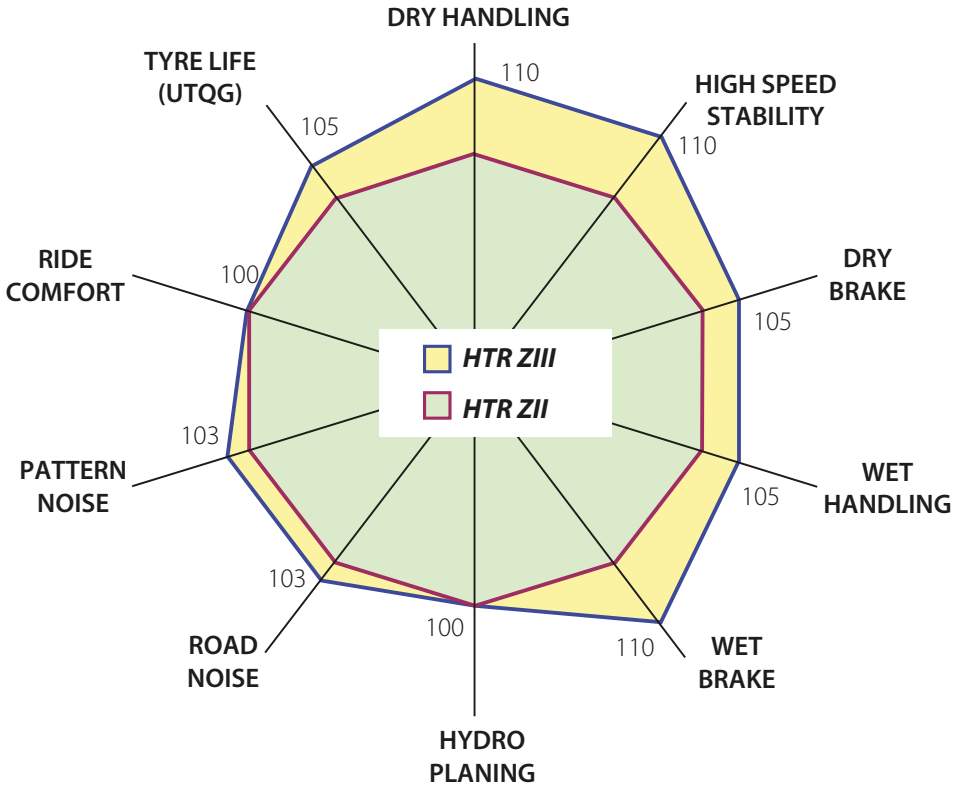
SUMITOMO TYRES

High rigidity construction brings a significant step forward in high-speed steering stability

Introducing the new Sumitomo HTR ZIII as the flagship Ultra High Performance option within the range. Incorporating the latest technologies and a modern tread pattern design, the ZIII has not only maintained its predecessor's performance standards, but actually improved in a number of facets as depicted in the PERFORMANCE RADAR below, using the ZII as the benchmark for performance.

The Sumitomo HTR ZIII's predecessor, the HTR ZII has proven its consistent performance and suitability to top of the range performance vehicles across the globe; however in keeping with evolving tread pattern trends and our uncompromising attitude towards performance, an updated flagship pattern was inevitable, and so the HTR ZIII was born and a new benchmark for ultra-high performance tyres has been set.

Performance Radar



Sidewall Indication

Wear appearance

The ribbed pattern has been designed to ensure an even wear pattern during the life of the tyre. This reduction in irregular wear ensures more mileage from the tyre and more consistent performance over time.

Ultra High Performance

HTR ZIII

HTR ZIII

The flagship ultra-high performance pattern in the Sumitomo Tyres' range, the HTR ZIII is well suited to high performance, luxury sports cars and sedans. The asymmetric, 5-rib pattern with stiffer outer blocks provides excellent high-speed stability and control, while the advanced silica tread compound and groove design enhance wet weather performance and help reduce irregular wear.

SUMITOMO TYRES

Feature		Benefit
Asymmetric 5-rib pattern	1	Achieves high speed stability thanks to the asymmetric pattern with stiffer outer blocks designed to withstand increased centrifugal forces and inner blocks to provide excellent straight handling stability.
Lateral grooves	2	Long lateral grooves contribute to clearing water from the centre rib to the outer blocks during cornering.
Irregular wear control rib	3	The irregular wear control rib works to reduce irregular wear on the inner shoulder blocks.
Wide and straight grooves	4	Four efficient wide and straight grooves located in the tread area enhance wet performance.
In tire-bar sipes	5	Control shoulder block stiffness to reduce irregular wear and keep draining water as the wear progresses to ensure consistent wet weather handling.
3D Wave-wall	6	Ensures water drainage and minimises centre rib movement for excellent handling response.

Available sizes and technical specifications

	LOAD INDEX	SPEED INDEX	OVERALL DIAMETER (mm)	SECTION WIDTH (mm)	MAX LOAD (kg)	RECC RIM (J)	PRODUCT CODE
205/50R17	93	Y	638	214	650	6.5	G10691063SJ
215/45R17	87	Y	626	213	545	7.0	G10691064SJ
225/45R17	94	Y	634	225	670	7.5	G10691066SJ
235/45R17	94	Y	644	236	670	8.0	G10691069SJ
245/45R17	95	Y	652	243	690	8.0	G10691075SJ
245/40R17	95	Y	628	248	690	8.5	G10691073SJ
255/40R17	94	Y	636	260	670	9.0	G10691080SJ
275/40R17	98	Y	652	278	750	9.5	G10691085SJ
235/50R18	97	Y	693	245	730	7.5	G10691070SJ
225/45R18	95	Y	659	225	690	7.5	G10691067SJ
245/45R18	100	Y	677	243	800	8.0	G10691076SJ
255/45R18	103	Y	687	255	875	8.5	G10691081SJ
225/40R18	92	Y	637	230	630	8.0	G10691065SJ
235/40R18	95	Y	645	241	690	8.5	G10691068SJ
245/40R18	97	Y	653	248	730	8.5	G10691074SJ
255/35R18	94	Y	635	260	670	9.0	G10691077SJ
265/35R18	97	Y	643	271	730	9.5	G10691082SJ
245/35R19	93	Y	655	248	650	8.5	G10691071SJ
255/35R19	96	Y	661	260	710	9.0	G10691078SJ
275/30R19	96	Y	649	278	710	9.5	G10691083SJ
245/35R20	95	Y	680	248	690	8.5	G10691072SJ
255/35R20	97	Y	686	260	730	9.0	G10691079SJ
275/30R20	97	Y	674	278	730	9.5	G10691084SJ
285/30R20	99	Y	680	290	775	10.0	G10691086SJ

High Performance

HTR A/S P01

This high performance tyre has a superior level of grip in wet and dry conditions. The HTR A/S P01 is the ideal direct replacement for original equipment tyres on many of today's most popular performance oriented vehicles.

SUMITOMO TYRES

Feature		Benefit
Wide tread 5 rib directional pattern	1	Provides quick and direct steering response
4 wide grooves	2	Evacuates water from the contact patch to enhance performance in wet weather
Multiple directional grooves and sipes	3	Optimises grip on wet surfaces
Zigzag groove walls	4	Improves lateral stability and traction in addition to ensuring water drainage
Tie-bar sipes	5	Controls shoulder block stiffness and water drainage

Available sizes and technical specifications

	LOAD INDEX	SPEED INDEX	OVERALL DIAMETER (mm)	SECTION WIDTH (mm)	MAX LOAD (kg)	RECC RIM (J)	PRODUCT CODE
195/65R15	91	H	635	202	615	6.0	G10591123SJ
205/65R15	94	H	646	212	670	6.0	G10591125SJ
195/60R15	88	H	613	201	560	6.0	G10591122SJ
205/60R15	91	H	626	206	615	6.0	G10591124SJ
195/55R15	85	V	594	200	515	6.0	G10591200SJ
205/60R16	92	V	650	208	630	6.0	G10591202SJ
225/60R16	98	V	675	227	750	6.5	G10591205SJ
205/55R16	91	V	630	215	615	6.5	G10591201SJ
215/55R16	93	V	640	226	650	7.0	G10591203SJ
225/55R16	95	V	653	236	690	7.0	G10591204SJ
215/45R17	87	W	629	215	545	7.0	G10691942SJ
225/45R17	91	W	636	227	615	7.5	G10691947SJ
205/40R17	84	W	599	213	500	7.5	G10691945SJ
225/40R18	88	W	640	230	560	8.0	G10691946SJ

HTR 50Z

Available sizes and technical specifications

	LOAD INDEX	SPEED INDEX	OVERALL DIAMETER (mm)	SECTION WIDTH (mm)	MAX LOAD (kg)	RECC RIM (J)	PRODUCT CODE
195/50R15	82	W	557	201	475	6.0	G10691104SJ

T4 HIGHTECHRADIAL

HTR T4

The HTR T4 is designed for high performance sedans. Its five rib pattern enhances wet grip performance and resistance to aquaplaning. In addition, the tread compound enhances wear resistance and provides a longer life.

SUMITOMO TYRES

Feature		Benefit
Multi-radii tread profile	1	Uniform contact pressure provides improved treadwear and traction
Two in one shoulder blocks	2	Provides excellent cornering traction and durability
Four, wide straight circumferential tread grooves	3	Allows for exceptional water drainage and superb resistance to aquaplaning
Chaos tread block arrangement	4	Reduces noise for a comfortable quiet ride

Available sizes and technical specifications

	LOAD INDEX	SPEED INDEX	OVERALL DIAMETER (mm)	SECTION WIDTH (mm)	MAX LOAD (kg)	RECC RIM (J)	PRODUCT CODE
185/70R14	87	T	618	191	545	5.5	G10491106SJ
185/60R14	82	T	633	206	475	5.5	G10491100SJ

HTR 200

Available sizes and technical specifications

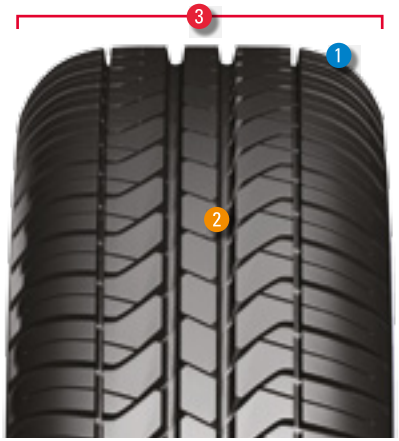
	LOAD INDEX	SPEED INDEX	OVERALL DIAMETER (mm)	SECTION WIDTH (mm)	MAX LOAD (kg)	RECC RIM (J)	PRODUCT CODE
195/70R14	91	H	627	200	615	6.0	G10591121SJ

H5 T5 HIGHTECHRADIAL

HTR H5
HTR T5

This modern tyre with open tread design and split centre rib, provides superior levels of safety, comfort, direct steering response and water displacement. The latest design ensures a quiet, sophisticated ride that combines economy with outstanding performance.

SUMITOMO TYRES



Feature		Benefit
Round tyre-contour with open tread pattern	1	Excellent resistance to aquaplaning
Sipes in the centre-rib	2	Reduced rolling resistance Optimised footprint and flexibility in the contact patch
Optimised footprint	3	Superior handling

Available sizes and technical specifications

	LOAD INDEX	SPEED INDEX	OVERALL DIAMETER (mm)	SECTION WIDTH (mm)	MAX LOAD (kg)	RECC RIM (J)	PRODUCT CODE
155/80R13	79	T	578	157	437	4.5	R10416003S1
165/80R13	83	T	593	166	487	4.5	R10416004S1
175/70R13	82	T	575	175	475	5.5	R10416005S1
175/70R14	84	H	602	182	500	5.0	R10516007S1
175/65R14	82	T	583	174	475	5.0	R10416006S1
185/65R14	86	H	596	185	530	5.5	R10415011S1
185/65R15	92	H	622	185	630	5.5	R10547004S1
185/60R15	84	H	604	185	560	5.5	R10547003S1

General Information

BASIC TYRE FUNCTIONS

Basic tyre functions are the capability of supporting a given load up to a given speed and transmitting the driving, the steering and the braking forces to the ground.

DIMENSIONS

RIM WIDTH
Linear distance between the flanges of the rim.

SECTION HEIGHT
Half the distance between the overall diameter and the nominal rim diameter.

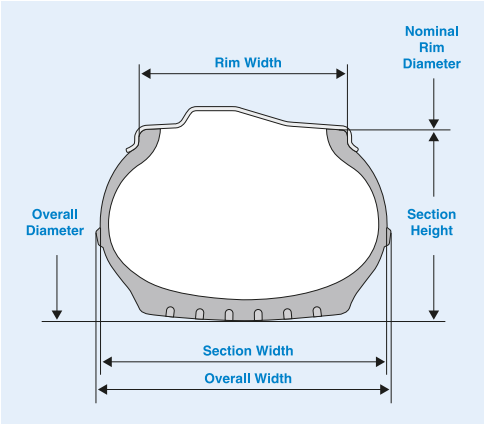
SECTION WIDTH
The linear distance between the outsides of the sidewalls of an inflated tyre excluding elevation due to labeling (markings), decorations, or protective bands or ribs.

OVERALL WIDTH
The linear distance between the outsides of the sidewalls of an inflated tyre including elevation due to labeling (markings), decorations, or protective bands or ribs.

OVERALL DIAMETER
The diameter of an inflated tyre at the outermost surface of the tread.

NOMINAL RIM DIAMETER
It is a size code figure for reference purposes only, as indicated in the tyre and rim designation.

NOMINAL ASPECT RATIO
One hundred times the ratio of the section height to the section width of the tyre on its theoretical rim.



SERVICE DESCRIPTION
In addition to the tyre size designation a tyre may be identified by a service description consisting of a load index (or two load indices in the case of single/dual fitments) and a speed symbol.

LOAD CAPACITY
The maximum load a tyre is permitted to carry under specified operating conditions.

INFLATION PRESSURE
Inflation pressure means the pressure taken with the tyre at ambient temperature and does not include any pressure build-up due to tyre usage.

M+S
Tyres specifically designed for mud and snow (winter). MS, M&S, M.S and M-S are also permitted.

SPEED SYMBOL
The speed symbol indicates the maximum speed at which the tyre can carry a load coresponding to its load index under service descriptions specified by the tyre manufacturer.

LOAD INDEX
The load index is a numerical code associated with the maximum load a tyre is permitted to carry at the speed indicated by its speed symbol under service conditions specified by the tyre manufacturer.

REINFORCED (EXTRA LOAD)
Passenger car tyres and/or motorcycle tyres designated for loads and inflation pressure higher than the standard version.

TEMPORARY USE ONLY
Passenger car tyres intended for temporary use as spare in one position only.

SPEED SYMBOL

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

*If tyres are suitable for speed over 300km/h, the service description shoud be marked within brackets.
e.g. 195/50ZR15 (82Y)

LOAD INDEX

LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg
0	45	40	140	80	450	120	1400	160	4500	200	14000	240	45000
1	46.2	41	145	81	462	121	1450	161	4625	201	14500	241	46250
2	47.5	42	150	82	475	122	1500	162	4750	202	15000	242	47500
3	48.7	43	155	83	487	123	1550	163	4875	203	15500	243	48750
4	50.0	44	160	84	500	124	1600	164	5000	204	16000	244	50000
5	51.5	45	165	85	515	125	1650	165	5150	205	16500	245	51500
6	53.0	46	170	86	530	126	1700	166	5300	206	17000	246	53000
7	54.5	47	175	87	545	127	1750	167	5450	207	17500	247	54500
8	56.0	48	180	88	560	128	1800	168	5600	208	18000	248	56000
9	58.0	49	185	89	580	129	1850	169	5800	209	18500	249	58000
10	60.0	50	190	90	600	130	1900	170	6000	210	19000	250	60000
11	61.5	51	195	91	615	131	1950	171	6150	211	19500	251	61500
12	63.0	52	200	92	630	132	2000	172	6300	212	20000	252	63000
13	65.0	53	206	93	650	133	2060	173	6500	213	20600	253	65000
14	67.0	54	212	94	670	134	2120	174	6700	214	21200	254	67000
15	69.0	55	218	95	690	135	2180	175	6900	215	21800	255	69000
16	71.0	56	224	96	710	136	2240	176	7100	216	22400	256	71000
17	73.0	57	230	97	730	137	2300	177	7300	217	23000	257	73000
18	75.0	58	236	98	750	138	2360	178	7500	218	23600	258	75000
19	77.5	59	243	99	775	139	2430	179	7750	219	24300	259	77500
20	80.0	60	250	100	800	140	2500	180	8000	220	25000	260	80000
21	82.5	61	257	101	825	141	2575	181	8250	221	25750	261	82500
22	85.0	62	265	102	850	142	2650	182	8500	222	26500	262	85000
23	87.5	63	272	103	875	143	2725	183	8750	223	27250	263	87500
24	90.0	64	280	104	900	144	2800	184	9000	224	28000	264	90000
25	82.5	65	290	105	925	145	2900	185	9250	225	29000	265	92500
26	95.0	66	300	106	950	146	3000	186	9500	226	30000	266	95000
27	97.5	67	307	107	975	147	3075	187	9750	227	30750	267	97500
28	100	68	315	108	1000	148	3150	188	10000	228	31500	268	100000
29	103	69	325	109	1030	149	3250	189	10300	229	32500	269	103000
30	106	70	335	110	1060	150	3350	190	10600	230	33500	270	106000
31	109	71	345	111	1090	151	3450	191	10900	231	34500	271	109000
32	112	72	355	112	1120	152	3550	192	11200	232	35500	272	112000
33	115	73	365	113	1150	153	3650	193	11500	233	36500	273	115000
34	118	74	375	114	1180	154	3750	194	11800	234	37500	274	118000
35	121	75	387	115	1215	155	3875	195	12150	235	38750	275	121000
36	125	76	400	116	1250	156	4000	196	12500	236	40000	276	125000
37	128	77	412	117	1285	157	4125	197	12850	237	41250	277	128000
38	132	78	425	118	1320	158	4250	198	13200	238	42500	278	132000
39	136	79	437	119	1360	159	4375	199	13600	239	43750	279	136000

ADDENDUM

Please refer to the following guidelines in general to reach the tyres you are looking for. For more details, separate guidelines are available in each category.

TT : Tube Type
TL : Tubeless
MFS : Maximum Flange Shield
E-No. : E Number
RF : Reinforced
WLT : Raised White Letter
BLT : Raised Black Letter
OWL : Outlined White Letter
SL : White Slim Line
BLK : Black Sidewall
XL : Extra Load
LI : Load Index
SS : Speed Symbol
P.R. : Ply Rating

NOTICE: All the information in this booklet is subject to change with or without notice.

Product Care Overview

SAFETY WARNING – TYRE UNDERINFLATION / OVERLOADING

Serious injury or death may result from tyre underinflation or overloading. Follow owner's manual and your car's tyre information placard for proper inflation pressures and load carrying capacities.

MAINTAIN PROPER INFLATION PRESSURE IN YOUR TYRES

Proper inflation pressure is necessary for tyre safety, performance, and best fuel economy. To maintain proper inflation pressure, at least monthly, check your tyres with an accurate pressure gauge while cool (driven less than a kilometre). If you check hot tyres while traveling, expect the pressure to be 34 – 69 kPa above the recommendation. That is normal, due to temperature rise during flexing. Do not bleed off pressure to reduce pressure down to the recommendation. If a hot tyre reads at or below recommended pressure, add 34 kPa more than recommended, and then check later when cool.

It is very difficult to tell an underinflated tyre just by looking at it – you must use a gauge. Set the pressure to the level recommended by the vehicle manufacturer for the original equipment size tyre, or use SUMITOMO'S pressure recommendation if the size has been changed from the original equipment size.

Underinflation is the most common cause of tyre failures in any kind of tyre and may result in severe cracking, component separation and tyre failure ("blow-out"), with unexpected loss of vehicle control, and accident, with possible death or injury.

Furthermore, when driving a vehicle with radial tyres, especially low profile tyres, it is very difficult to notice that a tyre has started to deflate or gone flat, since the "feel" of the vehicle does not change appreciably. Therefore, frequent visual and pressure inspections are very necessary.

DO NOT OVERLOAD YOUR TYRES

Check your vehicle tyre placard to determine the tyre load limits. Overloading your vehicle places stress on your tyres and other vehicle components. Overloading can cause tyre failure, due to the same overflexing that results from underinflation.

DO NOT SPIN YOUR TYRES EXCESSIVELY

Avoid excessive spinning of the powered wheels when your vehicle is stuck in mud, or sand. Depending on your vehicle's drive train design, it is possible for the tyre to be spinning twice as fast as your speedometer indicates. SAFETY WARNING: Never stand near or behind a tyre that is spinning at high speed, such as pushing a vehicle from behind or when an on-the-car spin balancer is used. The centrifugal forces on a free spinning tyre and wheel assembly may result in tyre explosion, vehicle damage, and personal injury or death. Never exceed 56 km/h indicated on your speedometer. Use a gentle back and forth rocking motion to free your vehicle for continued driving.

CHECK YOUR TYRES FOR WEAR

Always remove your tyres from service when they reach 1 mm remaining tread depth. SUMITOMO tyres have a tread depth indicator bar at the base of tread grooves that becomes apparent at 1 mm depth. If those bars are exposed, the area will look smooth across the tread face.

Excessively worn tyres have decreased wet weather traction, and continued use may result in skidding and loss of control, accident and personal injury or death. Also, they may be more susceptible to tread penetrations and possible deflation.

DO NOT APPLY SIDEWALL DRESSING OR HARSH CHEMICAL CLEANERS

SUMITOMO tyre sidewalls are specially compounded to resist ozone and weather cracking. Use of some dressings or cleaners may degrade rubber and remove inherent ozone resistance, resulting in premature cracking or discolouration. Use a mild soap solution to clean sidewalls and white lettering, and rinse with plain water.

CHECK YOUR TYRES FOR DAMAGE

Frequent inspection of your tyres for signs of damage and their general condition is important for safety. If you have questions about tyre condition, have your dealer inspect them. Impact abrasions, penetrations, cracks, knots, bulges or unexplained air loss always require tyre removal and close expert inspection.

PROPER TYRE REPAIR

Never perform a temporary or plug-type repair or use an inner tube as a substitute for a proper repair. Only qualified persons should repair tyres.

Repairs may only be made between the tread shoulders for penetrations 12.7 mm or less in diameter. Repair only straight-through punctures, and ensure no tyres are repaired that show evidence of run-low wrinkling or heat deterioration, cutting, cracking, separation, or other damage. Injuries to the sidewalls must not be repaired.

Repairs must fully seal the interior and fill the damage wound. You must use either a patch-plug combination, or separately fill the wound with rubber and put a patch in the interior, to ensure that neither air leaks out nor water enters the tyre structure.

Repairs must be done from inside the tyre, to ensure the tyre is thoroughly inspected for secondary damage and the tyre is properly sealed. DO NOT USE PLUG REPAIRS APPLIED FROM OUTSIDE THE TYRE WITHOUT DEMOUNTING.

SUMITOMO does not endorse or warrant any particular type of repair process. The repair is entirely the responsibility of the repairer.

DO NOT ATTEMPT TO MOUNT YOUR OWN TYRES

SAFETY WARNING: Serious injury or death may result from explosion of the tyre/rim assembly due to improper mounting procedures. Only properly trained persons using adequate mounting equipment should mount tyres.

Follow manufacturer's instructions and match bead diameter to rim diameter. Lubricate bead and rim mounting surfaces with standard tyre lubricants. Do not use petroleum-based lubricants, which may deteriorate the tyres.

Lock the wheel on a mounting machine or place in a safety cage for inflation. Do not exceed 275 kPa to seat the beads. Stand away from the tyre in case of explosion. Never use a volatile substance to assist in seating the bead, as risk of tyre explosion is great.

NEVER MOUNT AN "xx" SIZE DIAMETER TYRE ON AN "xx.5" RIM (Example: A 16" tyre on a 16.5" rim.)

Mounting an "xx" tyre on an "xx .5" rim will most likely result in a tyre explosion, which can cause serious injury or death. While it is possible to initially pass an "xx" tyre over the lip or flange of an "xx.5" diameter rim, it cannot possibly position itself properly against the rim flange, which has a larger diameter. If an attempt is made to seat the bead by inflating the tyre, the tyre will break loose with explosive force.

DO NOT MIX TYRES OF DIFFERENT SIZES AND TYPES

SUMITOMO and the RMA recommends use of four tyres of the same type and size unless otherwise specified for certain vehicle applications. ALWAYS CONSULT VEHICLE, TYRE, AND RIM MANUFACTURERS' REQUIREMENTS FOR SAFETY WHEN REPLACING TYRES.

FOLLOW THESE ADDITIONAL GUIDELINES:
For many front wheel drive vehicles, fit the newest tyres on the rear axle. If radials and non-radials must be fitted to the same vehicle, fit radials on the rear. If different tyre profiles are fitted on the same vehicle, use the widest tyres on the rear axle.

Never mix tyres of different size or type on the same axle.

VEHICLE SUSPENSION, WHEEL ALIGNMENT, BALANCE, TYRE ROTATION, AND TYRE CONDITION

Lack of rotation, worn suspension parts, underinflation/overinflation, wheel imbalance, and misalignment may cause vibration and irregular tyre wear. Rotate your tyres every 10,000 km. Directional tyres should be rotated front-to-rear only, not crossed.

Speed ratings on SUMITOMO tyres are determined for new tyres using the ECE 30 European Indoor Testing procedures, and may not be valid for damaged, altered, repaired, underinflated, overloaded, excessively worn, or retreaded tyres.

SUMITOMO does not recommend the use of any of its products in excess of legal speed limits. Adverse driving conditions, such as rain always require special handling care and greatly reduced speeds.

TYRE "Plus-Sizing" GUIDELINES & SAFETY WARNINGS

Every new vehicle sold is required to have a vehicle tyre placard attached to the door edge, door jamb, or glove box, which shows the original tyre size, load capacity, and recommended air pressure for the design dynamic loads on each axle. When making a replacement tyre choice, always first check your placard to get the original tyre information – it is always possible that what you currently have mounted on the vehicle is not original equipment. Then, using the following SUMITOMO guidelines for tyre replacement, choose a new tyre size and load capacity that will meet or exceed the original requirements.

TYRE LOAD CARRYING CAPACITY:

Replacement tyres must have a load carrying capacity equal to or greater than the capacity of the original tyres, at their recommended pressures. Using the wrong size tyre can lead to tyre failure.

The door mounted tyre information placard shows the size, load index, and recommended pressures for each axle. While it is generally recommended that any replacement tyres have the same load index as the original tyres, circumstances may allow a lower load index, but only if the replacement tyres can carry the same actual loads as the original tyres, although at different air pressures. Such a determination requires a sophisticated analysis of the load and inflation charts for the original and prospective replacement tyres, which should be done only by a trained tyre professional. We recommend you consult with SUMITOMO or an authorised dealer for guidance in this area.

Additionally, load indexes may be "STANDARD" or "REINFORCED". Some REINFORCED ratings will require additional air pressure to carry the same loads as STANDARD ratings.

Consult SUMITOMO or an authorised dealer for specific guidance about air pressure requirements for REINFORCED load index tyres.

IMPORTANT REMINDER: If you require different air pressures for your new tyres to carry the tyre loads, you have the responsibility to ensure those pressures are ALWAYS used.

We recommend you place an additional new tyre information sticker near your placard, with the new tyre sizes and required air pressures noted, so that any maintenance persons will know there has been a change. If that is not done, or if you do not personally check your pressures, there is a high risk that your pressures will be set at the original requirements, and your tyres will be underinflated, which can result in tyre failure and accident.

TYRE SPEED RATINGS:

Replacement tyres must have a speed rating equal to or greater than the rating of the original tyres to maintain vehicle speed capability. If the replacement tyres are a lower speed rating than shown on the vehicle tyre placard, the vehicle speed capability is restricted to that of the replacement tyres.

You must choose a speed rating that meets your operating needs and ensure you do not exceed the rated speed of your tyres.

Also, while speed ratings are not a direct indicator of tyre handling capabilities, it is usually true that a higher rating may translate to different handling characteristics. If you decrease the speed rating, you must ensure that you are familiar with the handling characteristics of your vehicle and adjust your driving to the lower rating.

TYRE OVERALL DIAMETER:

As noted previously, vehicle manufacturers choose tyres with a certain overall diameter for the particular design vehicle. Vehicle systems such as ABS, odometer speedometer, and onboard sensors and computers may be affected by a change in overall diameter. Sumitomo does not recommend use of tyres that change your vehicle design criteria.

If you choose a replacement tyre size that exceeds your vehicle design criteria range for tyre diameter, you may have to alter vehicle systems, suspension, and alignment to use it safely.

On Sport Utility Vehicles (SUV) and light trucks, any increase in tyre overall diameter, and the lifting of vehicle suspension to accommodate the larger size, may result in changes of vehicle ride height and resultant changes in rollover characteristics, braking distances, and handling. You must ensure any tyre size and suspension changes allow you to maintain safe operating control under all driving conditions.

Safety Information

FOR PCR / 4X4 / LTR

Any tyre, no matter how well constructed, may fail in use as a result of punctures, impact damage, improper inflation, overloading, excessive or other use conditions.

A tyre is wear-sensitive and all tyres eventually wear out. A worn or damaged tyre can present a safety hazard, and a tyre failure can lead to an accident that may result in property damage, injuries or death.

To reduce the risk of tyre failure we instruct you as follows:

1 **CHECK** the air pressure in all your tyres, including the spare, frequently when tyres are cool (when your vehicle has been driven less than a few kilometres or after being stopped for three or more hours). Don't reduce air pressure when tyres are hot from driving; use a tyre gauge to check the pressure and maintain it at the level recommended by the vehicle manufacturer.

2 **NEVER** overload your tyres. The maximum load carrying capability of your tyre is moulded on the sidewall of each tyre.

3 **CHECK** your tyres regularly for scraps, bulges, separations, cuts, snags or embedded foreign objects. Show the tyres to your store or dealer immediately if any such condition is discovered.

4 **NEVER** operate your vehicle in excess of lawful speeds, beyond maximum speeds by driving conditions or at speeds greater than recommended for the tyre you are using.

5 **MAKE** every effort to avoid driving over objects that may damage the tyres through impact of cutting such as potholes, glass and metal etc.

6 **NEVER** drive on smooth tyres. Always remove tyres from service and replace when they reach a remaining 1.6 mm of tyre depth. Tread wear indicators are generally built into tyres to indicate when they are worn, Sumitomo tyres have tread wear indicators to indicate when they are worn to 1.6mm of tread remaining.

7 **DON'T** spin tyres excessively on mud, as this can cause tyre explosion or disintegration, as well as axle failure.

IMPORTANT INFORMATION is moulded on the sidewall.

Among other information, the sidewall information contains the tyre size, load range, maximum load and maximum pressure for that particular tyre.

Always follow the instructions and recommendations of the vehicle manufacturer, as contained in the Vehicle Owner's Manual.

WARNING

SERIOUS INJURY OR DEATH MAY RESULT FROM EXPLOSION OF TYRE/RIM ASSEMBLY, IF PROPER MOUNTING INSTRUCTIONS ARE NOT FOLLOWED.

- **ONLY** specially trained persons should mount tyres.
- **ALWAYS** match rim diameter with tyre diameter.
- **NEVER** mount a tyre on a cracked, bent, rusted or otherwise damaged rim or a rim which has been repaired.
- **NEVER** put a flammable substance into a tyre.
- **ALWAYS** clean and lubricate the rim and tyre beads.
- **ALWAYS** use an extension air hose with gauge and clip-on air chunk.
- **ALWAYS** lock the wheel on the tyre mounting machine, or place it in a safety cage when inflating.
- **ALWAYS** stand clear, and NEVER lean or reach over the tyre/rim assembly when inflating.
- **NEVER** inflate over 275 kPa to seat bead.
- **ALWAYS** adjust tyre pressure to the vehicle manufacturer's recommendations after beads are fully seated.
- **ALWAYS** put tyres on in a set of four, when you put them on your vehicle.

FOR TRUCK AND BUS TYRES

Any tyre, no matter how well constructed, may fail in use as a result of punctures, impact damage, improper inflation, overloading, excessive wear or other use conditions.

A tyre is wear-sensitive and all tyres eventually wear out. A worn or damaged tyre can present a safety hazard, and to reduce the risk of tyre failure we instruct you as follows:

1 **CHECK** the air pressure in all your tyres, including the spare, frequently when tyres are cool (when your vehicle has been driven less than a few kilometres or after being stopped for three or more hours). Don't reduce air pressure when tyres are hot from driving; use a tyre gauge to check the pressure and maintain it at the level recommended by the vehicle manufacturer.

2 **NEVER** overload your tyres. The maximum load carrying capability of your tyre is moulded on the sidewall of each tyre.

3 **CHECK** your tyres regularly for scraps, bulges, separations, cuts, snags or embedded foreign objects. Show the tyres to your store or dealer immediately if any such condition is discovered.

4 **NEVER** operate your vehicle in excess of lawful speeds, beyond maximum speeds by driving conditions or at speeds greater than recommended for the tyre you are using.

5 **MAKE** every effort to avoid driving over objects that may damage the tyres through impact of cutting such as potholes, glass and metal etc.

6 **NEVER** drive on smooth tyres. Always remove tyres from service and replace when they reach a remaining 1.6 mm of tyre depth. Tread wear indicators are generally built into tyres to indicate when they are worn, Sumitomo tyres have tread wear indicators to indicate when they are worn to 1.6mm of tread remaining.

7 **DON'T** spin tyres excessively on mud, as this can cause tyre explosion or disintegration, as well as axle failure.

IMPORTANT INFORMATION is moulded on the sidewall.

Among other information, the sidewall information contains the tyre size, load range, maximum load and maximum pressure for that particular tyre.

Always follow the instructions and recommendations of the vehicle manufacturer, as contained in the Vehicle Owner's Manual.

WARNING

SERIOUS INJURY OR DEATH MAY RESULT FROM EXPLOSION OF TYRE/RIM ASSEMBLY, IF PROPER MOUNTING INSTRUCTIONS ARE NOT FOLLOWED.

- **ONLY** specially trained persons should mount tyres.
- **ALWAYS** match rim diameter with tyre diameter.
- **NEVER** mount a tyre on a cracked, bent, rusted or otherwise damaged rim or a rim which has been repaired.
- **ALWAYS** make sure that the inside of the tyre is dry before mounting. Moisture in the tyre can damage the casing.
- **NEVER** put a flammable substance into a tyre.
- **ALWAYS** clean and lubricate the rim and tyre beads.
- **ALWAYS** use an extension air hose with gauge and clip-on air chunk.
- **ALWAYS** inflate with dry air from a compressor with a properly working moisture filter.
- **ALWAYS** stand clear, and NEVER lean or reach over the tyre/rim assembly when inflating.
- **NEVER** inflate over 275 kPa to seat bead.
- ALWAYS adjust tyre pressure to the vehicle manufacturer's recommendations after beads are fully seated.

RUN FLAT TYRES (ROF)

Run flat (or run-on-flat) tyres have been developed in order to minimise the risks associated with a tyre puncture. A puncture can lead to the driver losing control of the vehicle due to the deflated tyre's loss of structure and possible dismounting from the rim during operation.

NOTES:

1. If run-flat or run-on-flat tyres are specified for a vehicle, normally with the use of a built-in Tyre Pressure Monitoring System (TPMS), it is important that this specification is followed at the time when the tyres of the vehicle are being replaced. If in doubt, refer to the car owner's manual.

2. Run flat tyres can operate without air in them at normal loads and operating conditions, but the vehicle may not be driven for a distance greater than 80 kms, and at a maximum safe speed of 80 km/hour, after which the deflated tyre must be replaced as per the car owner's manual guidelines.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