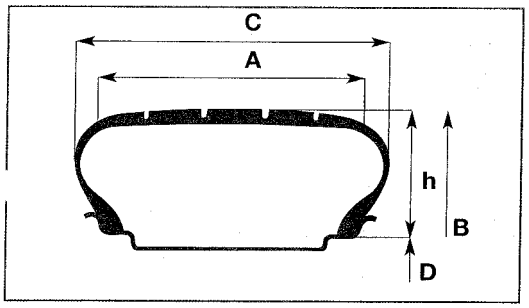
TECHNICAL INFORMATION

Tyre Identification

The size markings on the sidewall indicate the tyre's nominal dimensions, the rim diameter, width and, in some cases, tyre of structure.

Examples of the two different size marking systems are shown below:



195/65 R 15

195 = *nominal section width expressed in millimetres (C)*

65 = *ratio between nominal section height 'h' and nominal section width 'C' (h/C)*

R = *radial construction tyre*

15 = *rim diameter, code (D)*

225/600 - 16

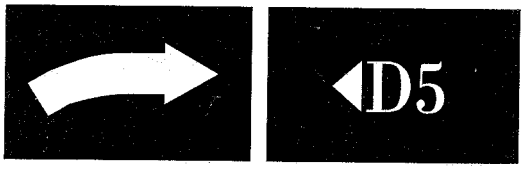
225 = *nominal tread width expressed in millimeters (A)*

600 = *nominal overall diameter expressed in millimeters (B)*

16 = *rim diameter, code (D)*

Directional arrows

The arrow on the tyre sidewall indicates the direction of rotation of the tyre: in the case of trailing axles it is fundamental for the arrow to point in the rolling direction. If the tyres are also asymmetric, they will be available in right and left fitment versions (indicated on the sidewall), in order to guarantee a better utilization of our tyres. When fitting rally gravel tyres, mounting is allowed in the opposite direction to the one indicated by the arrow; the important factor is that the position of inside and outside of the tread pattern is respected.



Marking of Rally Tyres

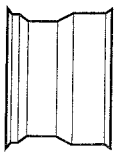
The various treads, for different types of use, will have a symbol with a letter followed by two numbers.
The letter defines the type of tread.
The first number after the letter indicates the group the tyre belongs to (*); the second number defines the tyre version (0 = first version; further numbers = subsequent developments).

(*)= same group, same application

RS50

Rims

The rim dimensions shown in this manual must be adhered to. If you are in any doubt, please contact a Pirelli technician.



Tubes

Racing tyres are tubeless, consequently the fitment of tubes is not permitted.

Inflation Pressure

Pressure must be measured when the tyres are hot and, therefore, immediately after use. The optimum pressure depends mainly upon the load distribution on the tyres; furthermore it may vary from one tyre to another but, in an case, the pressures must be equal on the same axle according to the general pressures indicated below.

Vehicle Type	Pressures when hot (BAR)
Group A/WRC 	from 2.0 to 2.4 (circuit) from 2.0 to 2.6 (rally)
Group N 	Over 2.0 – 2.6

Please contact a Pirelli technician regarding specific problems.

Tread compounds of Rally Tyres

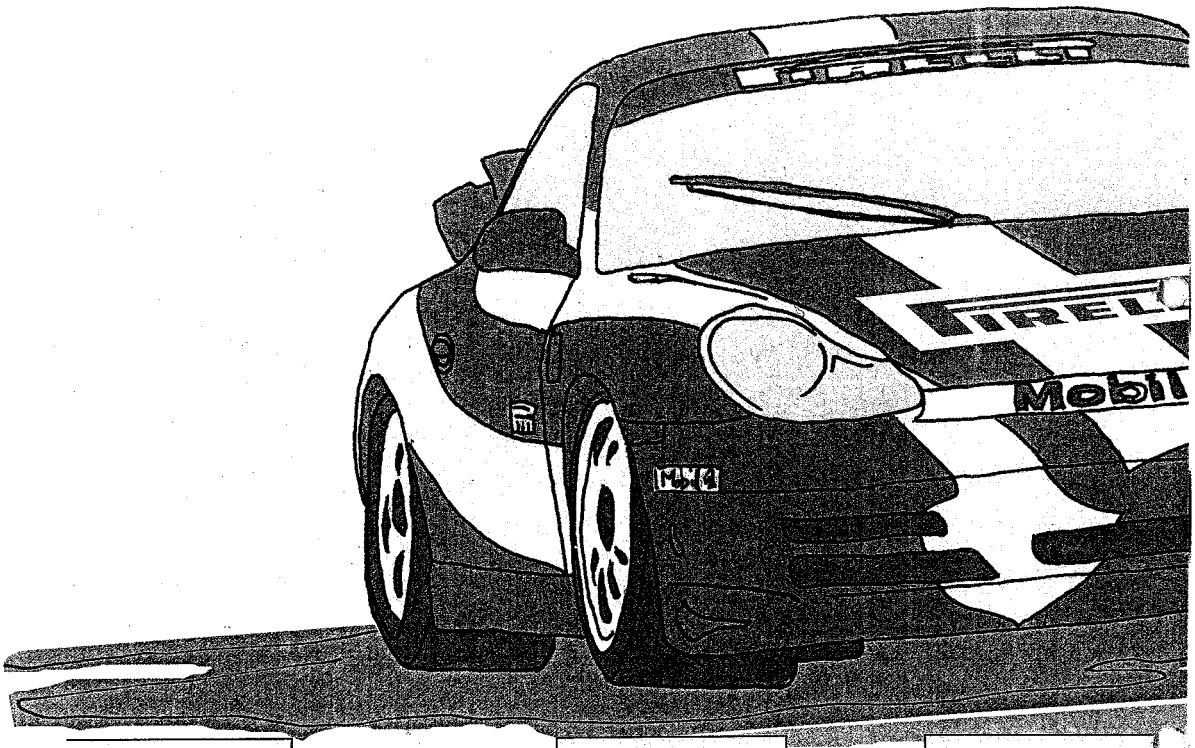
GRAVEL TYRE COMPOUNDS		HARDNESS +	TREAD COMPOUNDS OF ASPHALT TYRES	
OPTIMAL TREAD PATTERN TEMPERATURE				OPTIMAL TREAD PATTERN TEMPERATURE
80°-130°	2		5	80°-130°
50°-100°	4		7	50°-100°
30°-60°	6		9	20°-60°

Tread temperature

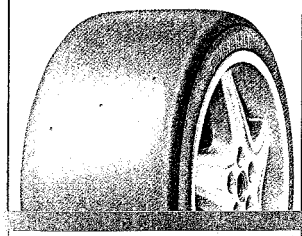
If the values measured are out of the indicated limits, it is necessary to change the tyre size or type. Large differences between temperatures of front and rear tyres can cause problems with the car balance, leading to tread compound degradation. It is, therefore, desirable that the temperatures of the inner and outer side are uniform.

Please contact a Pirelli technician for any other information concerning the technical aspects of our product range.

TYRES

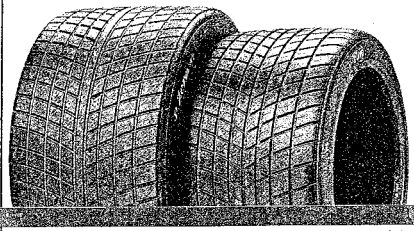


Slick



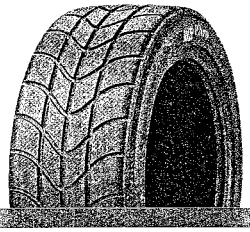
This tyre has a smooth tread: it is used exclusively on dry or damp asphalt.
It is available in a wide range of compounds in order to allow for the prevailing conditions (temperature/type of surface/distance to be run).

Rain

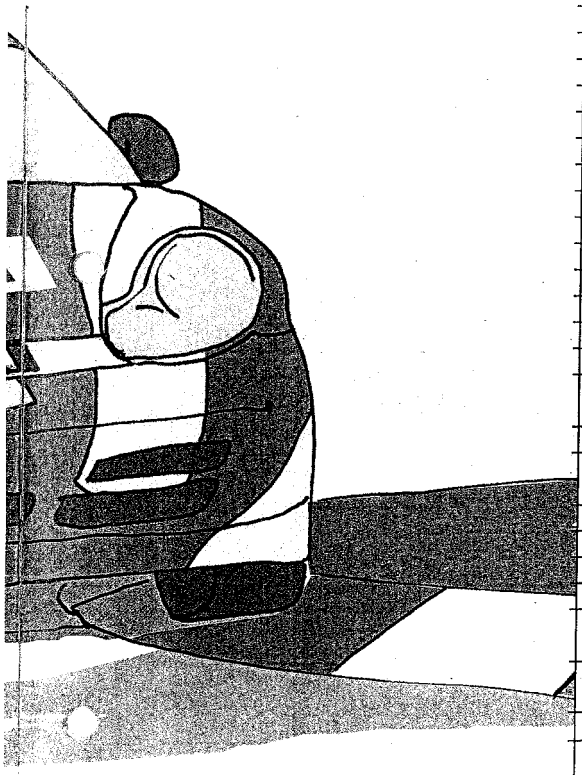


The essential feature of this type of tyre, to be used mainly on the racing track and exclusively on wet surfaces, is a series of longitudinal cuts, wide and deep enough to allow the ejection of the water and consequently favour a better road holding, avoiding the dangerous onset of aquaplaning.
The asymmetric design is particularly suited to the high camber characteristics of racing car suspensions.

Rain N



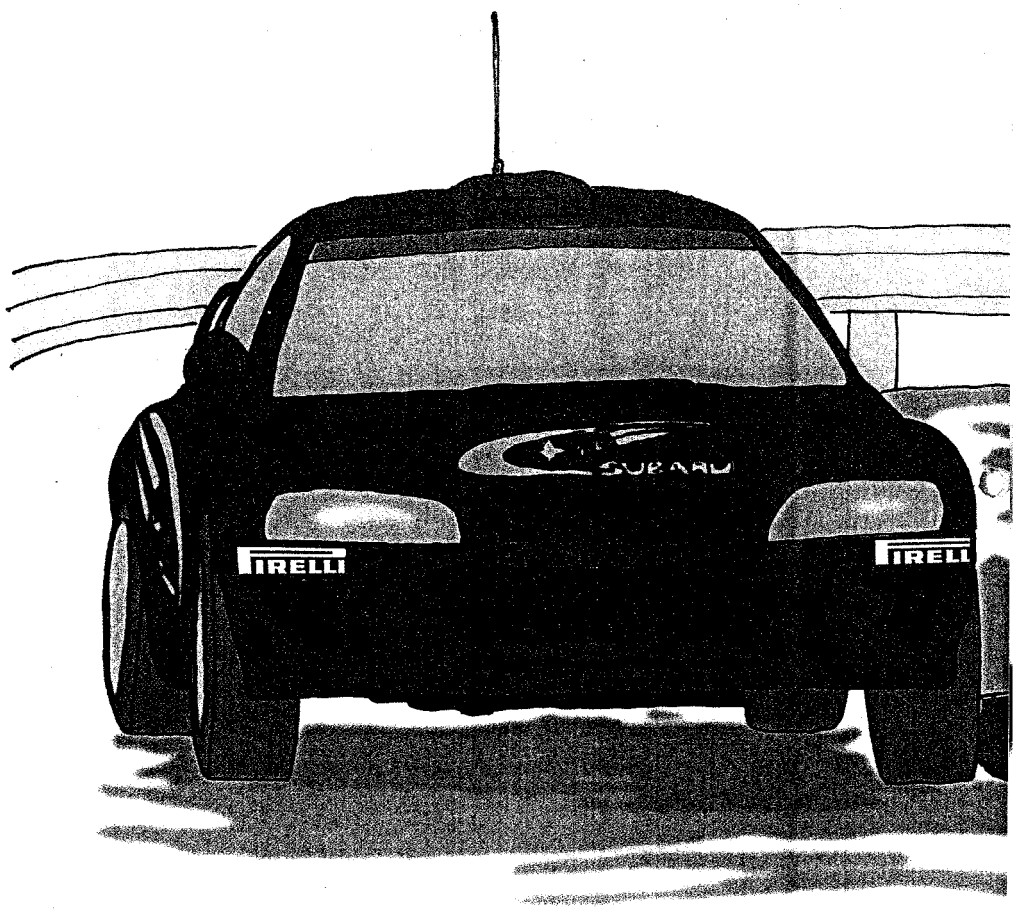
Tyre designed for control tyre championships.
It ensures excellent performance in light to heavy rain.



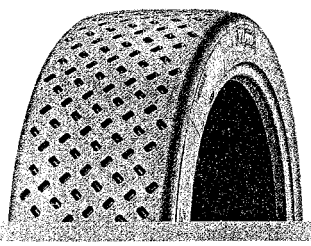
CIRCUIT RACING TYRES

TYRE SIZE	VERSION	Ø mm.	SECTION WDT. mm.	TREAD WDT. mm.	RIMS
145/515-13	D4 W6	515	170	145	5.5
160/535-13	D4 W6	535	185	160	5.5
180/530-13	ADAC SI/Rain	530	185	180	6
200/530-13	F3 SI/Rain	530	220	200	8
200/550-13	ADAC SI/Rain	550	235	190	9
235/550-13	D6 W6	550	265	235	10
250/575-13	F3	575	275	250	10
340/610-13	X D6 W6	610	375	340	14
185/55 R13	D3 W4 W6	515	170	145	5.5
160/535-14	D2 W5	535	185	160	6
185/565-15	D3 W5 N	565	200	185	7
190/580-15	D2 D5 W6 N	580	200	185	7
195/625-16	D4 W6	625	210	195	7
225/600-16	D3 D4 D5 W6	600	225	210	8
245/620-16	D3 D7 W6	620	245	230	8
295/620-16	D3 W6	620	310	290	11
225/625-17	D4 D5 D6 W6	625	225	210	8
245/620-17	D2 D3 D4 D5 D7 W6	620	245	235	8
265/640-17	D3 D4 D5 W6	640	270	265	9
305/645-17	D3 D4 D5 D6 W4 W6	645	325	300	12
225/625-18	W6 N	625	225	220	8
235/625-18	D3 W6 N	625	245	230	8
235/635-18	D5 D7 W6	635	245	230	8.5
235/645-18	D3	645	245	225	8
245/645-18	D3 D4 D5 P.CUP D6 D7 W6 P.CUP	645	255	249	9
265/645-18	D3 D4 D5 D6 D7 D8 W6	645	275	260	9.5
285/645-18	D4 D5 D6 W6	645	285	280	10
305/645-18	D3 D4 D5 D6 D8 W6	645	305	300	11
295/670-18	D3	670	285	275	10
295/680-18	D3	680	295	275	10
305/690-18	D2 D3 D4 D5 D6 D8 W6	690	305	285	11
325/650-18	D4 D5 D6 W6	650	345	325	13
305/660-18	D3 D4CUP D5 W6CUP	660	305	285	11
325/705-18	D3 D4 D5 D8 W6	705	350	325	13
360/710-18	D3 D4 D5 W6	710	400	380	14.5

TYRES

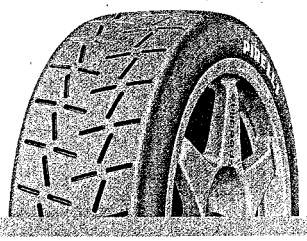


RP



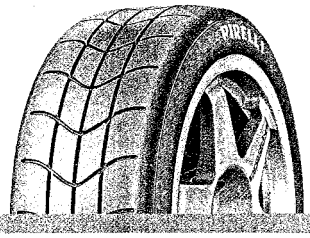
Tyre designed for use on dry asphalt, characterised by a particularly compact, innovative tread pattern.
This tread pattern gives higher stiffness to the tyre, ensuring higher performance levels and higher mileage.

RS



Rally tyre designed for use on dry or damp asphalt. Available in several compounds to be chosen according to the temperature and the road surface.

RE

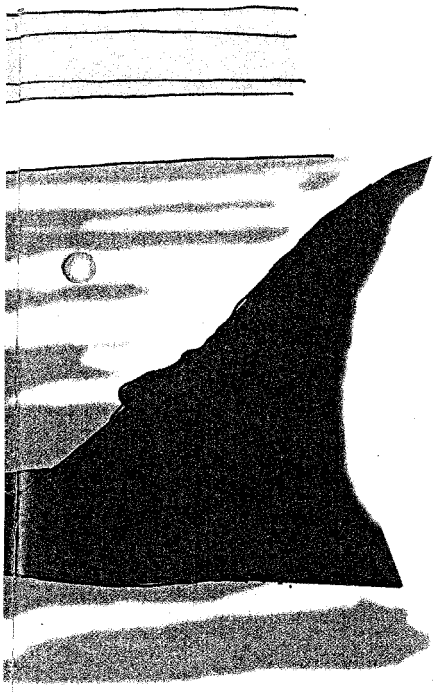


New intermediate tyre for use on damp or wet asphalt.
It can be further hand-cut for a more effective water drainage in heavy rain conditions.

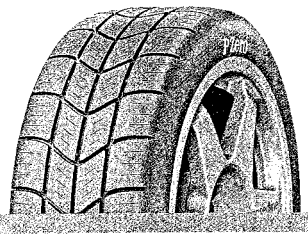
PIRELLI competizione

ASPHALT RALLY TYRES

TYRE SIZE	VERSION	Ø mm.	SECTION WDT. mm.	TREAD WDT. mm.	RIMS
160/560-14	RS5. RS7. B7.	560	185	150	4.5-5.5-6.5
190/580-14	RS5. RS7. N3.	580	200	170	6-7-8
190/580-15	RS5. RS7. RS9. N3.	580	200	170	6-7-8
210/625-16	RS5. RS7. RS9. N3.	625	210	185	7-7.5-8
225/600-16	RS5. RS7. RS9. N3.	600	226	200	7-8-9
225/625-16	RS5. RS7. RS9. N3.	625	226	200	7-8-9
210/625-17	RS5. RS7. RS9. N3.	625	212	190	7-7.5-8,5
225/625-17	RS5. RS7. RS9. N3.	625	226	200	7-8-9
225/650-17	RS5. RS7. RS9. N3.	650	226	200	7,5-8-9
225/650-18	RS5. RS7. RS9. N3. RE7. RE9. RP5.	650	226	200	7,5-8-9

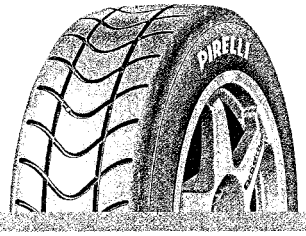


N



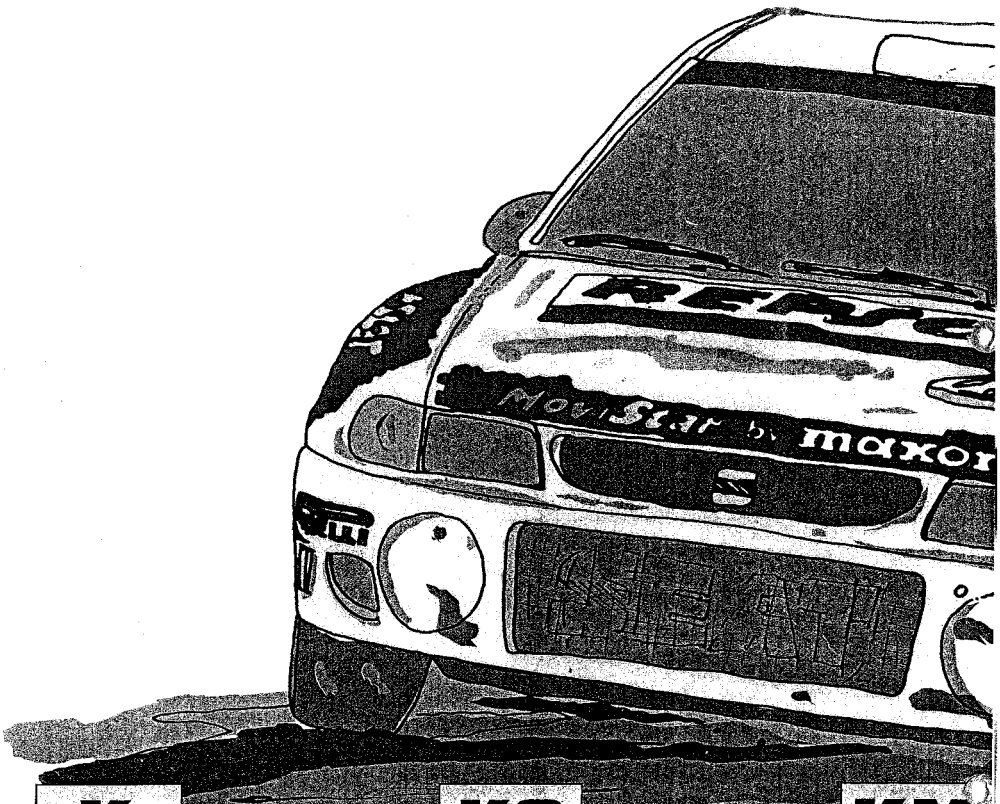
Intermediate tyre for use in all conditions of wet/extremely wet asphalt.
This tread pattern, specially designed to improve water dispersal, ensures high mileage even on abrasive road surfaces.
It can be transformed into a 'rain' design by hand-cutting.

B



Tyre designed for all conditions of use, from dry to wet surfaces.
It can be further hand-cut for a more effective water drainage in conditions of pouring rain.

GRAVEL RALLY TYRES



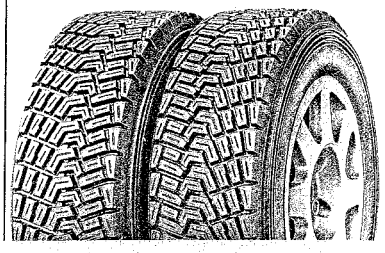
K

Gravel tyre for universal application suitable for dry roads as well as damp/wet surfaces. The inner part of its asymmetric design ensures excellent performance when accelerating and braking, maintaining at the same time an optimal wear level. The outer part, thanks to the arrangement of the shoulder blocks, ensures high lateral grip.

KC

Asymmetric tread pattern derived from the 'K' design; for use on high severity surfaces. It ensures exceptional mileage on compacted gravel roads and in high ambient temperatures. The external side can be hand-cut for use on looser surfaces.

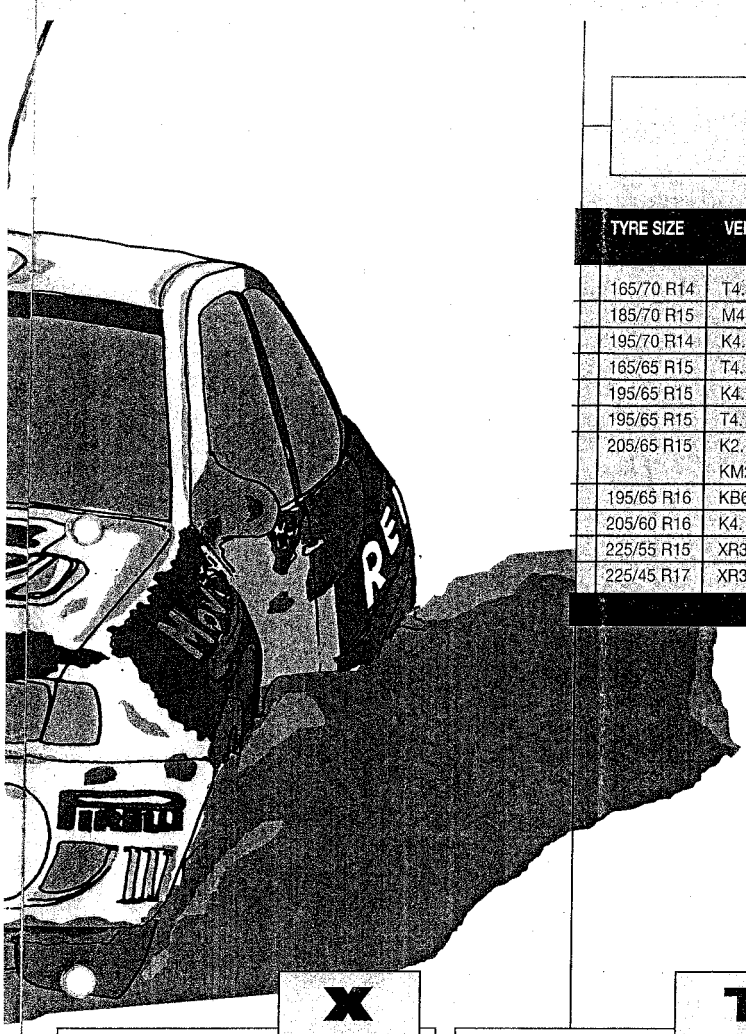
KM



Asymmetric tread pattern derived from the 'K' design; for use on soft or wet gravel surfaces. It ensures a perfect balance between performance and road holding on this kind of road surface.

PIRELLI competizione

GRAVEL RALLY TYRES

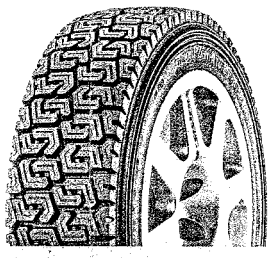


TYRE SIZE	VERSION	Ø mm.	SECTION WDT. mm.	TREAD WDT. mm.	RIMS
165/70 R14	T4. T6.	592	170	150	4-4.5-5.5
185/70 R15	M4.	650	210	150	6-6.5-7
195/70 R14	K4. K6.	635	200	165	6-7-8
165/65 R15	T4. T6.	600	170	150	5-6-7
195/65 R15	K4. K6.	635	200	165	6-7-8
195/65 R15	T4. T6.	620	188	160	6-7-8
205/65 R15	K2. K4. K6. KC2. KM2. KM4. KM6.	650	214	180	6.5-7.5-8
195/65 R16	KB6.	670	200	160	6-7-8
205/60 R16	K4. K6.	650	214	180	6.5-7.5-8
225/55 R15	XR3. XR5. XR7.	650	225	210	7-7.5-8
225/45 R17	XR3. XR5. XR7.	650	225	210	7-8-9

X

This is the tyre for use on rough gravel roads. It is also suitable for use on mixed gravel/asphalt routes, on damp or wet surfaces which offer poor levels of grip.
It is particularly resistant to impact damage thanks to a specialised internal structure and additional strengthening of the sidewall.

T



This tyre is suitable for use on loose, soft or gravel surfaces, generally offering low levels of grip. It is not recommended for applications on very abrasive surfaces.
Its tread profile is flat with sharp edges, favouring directional stability and lateral grip; the blocks, arranged radially, guarantee excellent traction, particularly on loose ground.
It has special lateral reinforcements that protect the tyre from possible damage impact.

M

Asymmetric tyre to be used on muddy sur allowing maximum traction and lateral grip th to the arrangement and size of the sho blocks.