

HANKOOK
driving emotion



ventus S1evo³

Powerful performance and superior handling for luxury vehicles



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ventus S1evo³

Test Result



Technical profile

Tread width	205~315
Series	25~50
Inch	17~22
Speed symbol	Y,(Y)

Technology & Performance icons



Key performance

Improvement in performance compared to predecessor

■ **ventus S1evo²**
■ **ventus S1evo³**

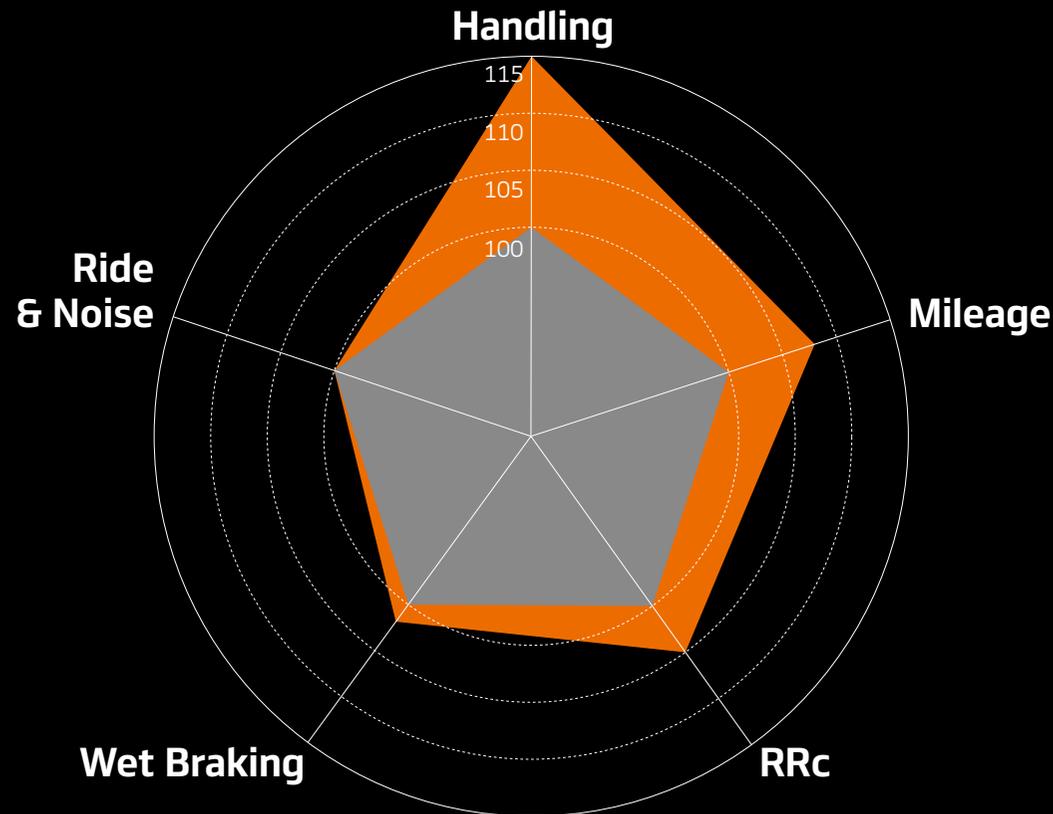
* Handling data refers to dry handling data.

Ride & Noise

High performance tyres must allow for high quality experiences. Superior comfort and low noise levels are two premium features of this tyre, providing an exceptional driving experience for both the driver and passengers.

Wet Braking

The impressive reduction of the braking distance on wet surfaces can prevent many dangerous and emergency situations.



Handling

Compared to its predecessor, this tyre demonstrates a far superior handling performance which allows the driver to experience excellent stability. Dry Handling is improved by 15%. Wet Handling is improved by 8%.

Mileage

Mileage is not compromised by the greatly enhanced driving performance.

RRc

The era of compromising mileage to allow for excellent driving performance is now in the past. The RRc C grade, which directly relates to mileage, is now secured.

Product concept

For performance that enables sustainability

Performance, safety and comfort are embodied in our sustainable tyres.

- Truly superior handling performance that will transform your driving experience.
- Powerful and responsive braking performance that reduces the braking distance on wet roads or in the event of an emergency.
- Maintains ride comfort, fuel efficiency and even drive performance.



Tyres chosen by premium car manufacturers

ventus S1evo

3D wave groove



2005



Ford Fiesta

ventus S1evo²

Triple layered groove



2012



AUDI RS4 (B9) & RS5
BMW 7 Series (G11) & 5 Series (G30)
Mercedes-Benz E-class (W213)
Mercedes-Benz C-class (W205)

ventus S1evo³

Interlocking groove



2019

NEW



AUDI RS6 & RS7
Porsche Cayenne

Reliable performance represented by results

ventus S1evo

2005



ventus S1evo²

2012



ventus S1evo³

2019



2010 Very Recommendable
(Auto Motor and Sport)
2007, 2009 & 2011 Very Recommendable
(Auto Bild Sportcars)

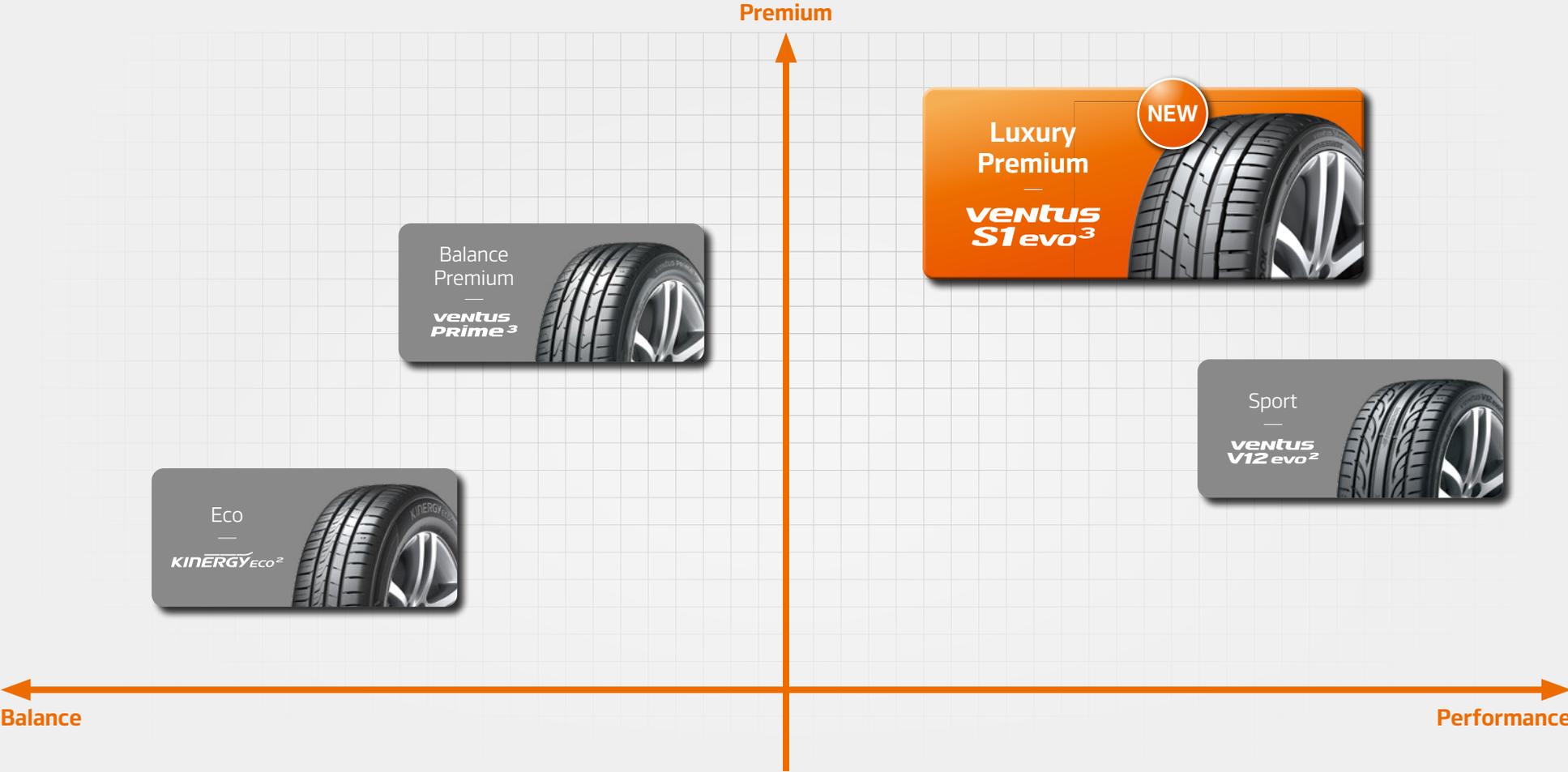


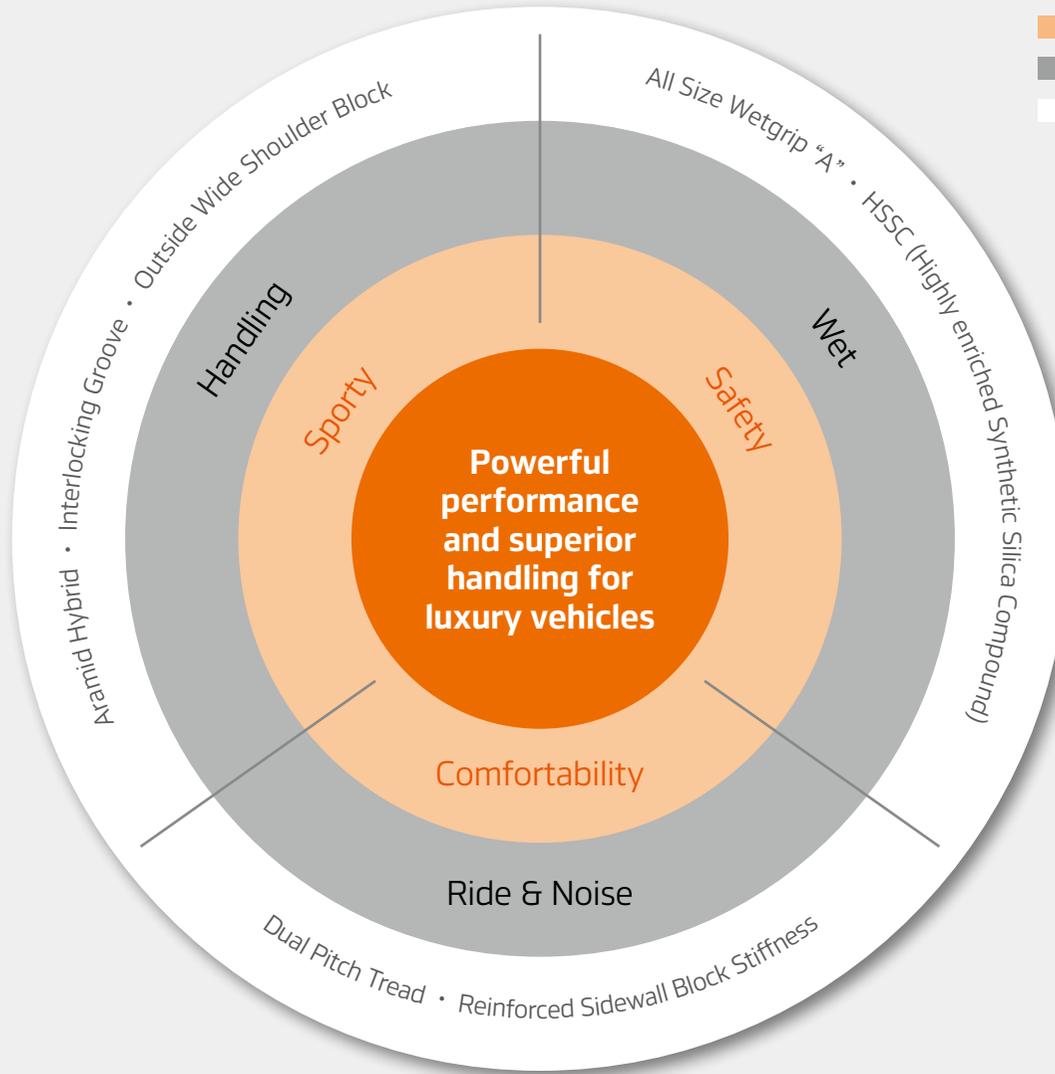
2013 Very Recommendable (ADAC)
2012 Very Recommendable
(Auto Motor and Sport)

“Ventus S1evo³ aims to achieve superiority due to its premium performance, safety and comfort.”

Positioning map

Passenger car



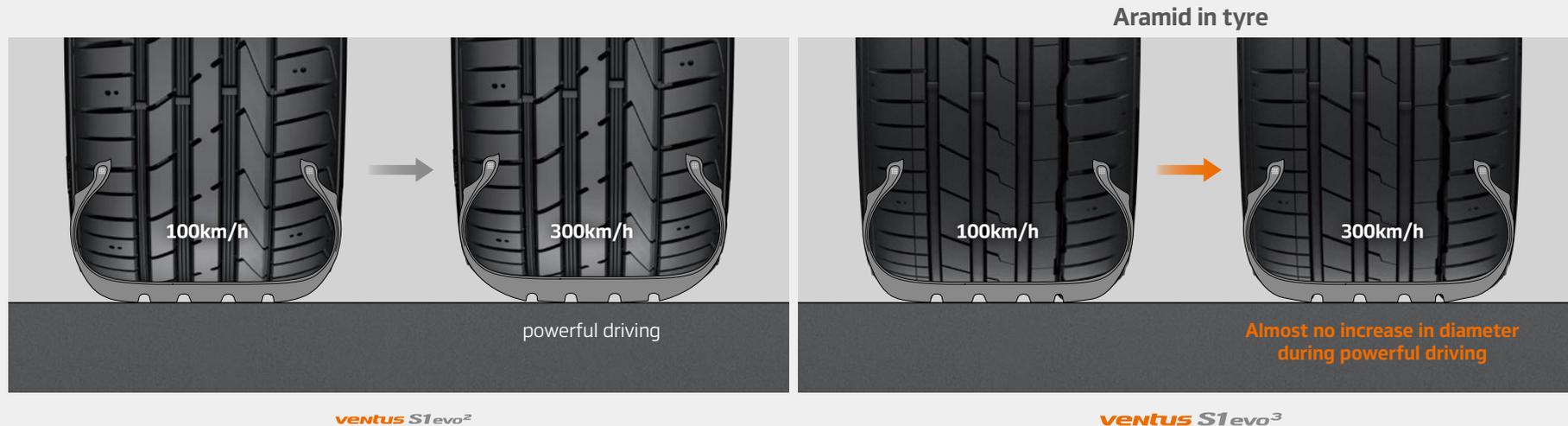


Handling

SPORTY

A Aramid hybrid cord

This prevents the diametrical increase of the tyre from the effects of centrifugal forces encountered during driving to minimise tread deformation, this also assists to neutralise the lateral forces applied during any change from the direction of travel. The Aramid hybrid cord enhances the handling stability of the tyre by reducing the abnormal loadings to one side of the tyre during cornering, offering a more stable platform.



Handling

Ultra high driving quality brought to life with the aramid reinforcement belt.

The aramid reinforcement belt is created with the most superior materials found in the tyre industry today. This allows for an impressive handling performance and also maintains the optimised shape of the contact surface.

B Aramid - strongest fibre on earth

Para-aramid, the strongest polymer material

Aramid is a high performing super fibre which is why most of its production is used in important technological industries such as the military, aircrafts, aerospace and marine biology. Its specific strength is more than that of iron and steel. Excluding 99% of sulfur substances, aramid is so resistant it can withstand all chemical substances without dissolving or decomposing, and the stability that prevents melting at high temperatures also only carbonises at temperatures over 500°C.

Sailing boat rope

Aramid fibre

Fireproof clothing

Racing car tyres

Body armour

* Aramid fibre image by KOLON Industries

Handling

SPORTY

Interlocking groove

Ventus S1 evo³ is equipped with interlocking outside grooves to secure wet grip and prevent hydroplaning on slick surfaces. This reinforces its performance on wet roads and cornering in the rain, without compromising dry handling performance.

* Technology Patent: 10-2018-0109541



Straight groove

Interlocking groove

Subjective evaluations performed under actual road conditions

Evaluation category (point)	Straight	Interlocking <i>ventus S1 evo³</i>
Dry handling	100	100
Wet handling	100	104



Handling

SPORTY

▣ Highly stiff outside shoulder

The outer blocks and shoulders of the tyre, where heavy loads and contact pressure are concentrated due to cornering, are expanded. The maximum steering grip force is secured by the dual action of the aramid hybrid reinforcement belt, which secures the flat contact surface under any conditions. This also ensures the dry handling is improved by 15%.



Wet

SAFETY

There is nothing more important than safety. All specifications have been awarded with wet grip class A.

EU tyre labelling regulations

The diagram illustrates the EU tyre labelling regulations, which are divided into two parts: 2009/... - C1 and 2009/... - C1. The 2009/... - C1 part shows three categories: Fuel efficiency rolling resistance (R.R.) with a rating of C, Wet grip braking performance with a rating of A, and Noise level external rolling noise with a rating of 72 dB. The 2009/... - C1 part shows three categories: Fuel efficiency rolling resistance (R.R.) with a rating of E, Wet grip braking performance with a rating of A, and Noise level external rolling noise with a rating of 72 dB.

- Fuel efficiency rolling resistance (R.R.)**: Rating C
- Wet grip braking performance**: Rating A
- Noise level external rolling noise**: 72 dB

* EU Label information may vary by size.
Please refer to the attached "available size list" for details.

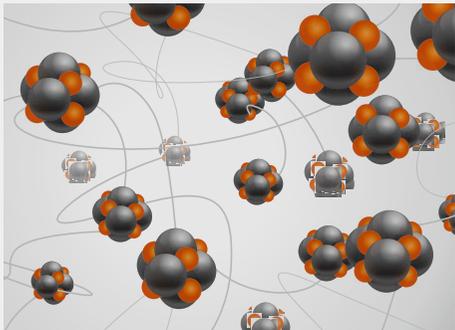


Wet

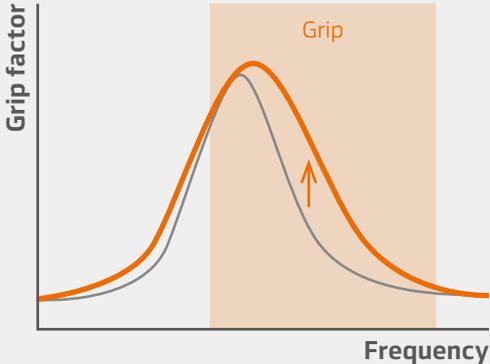
HSSC (Highly Enriched Synthetic Silica Compound) provides the ultra grip on wet surfaces.

HSSC (Highly Enriched Synthetic Silica Compound)

HSSC (Highly Enriched Synthetic Silica Compound) is a new compound, in which the highly purified and quality silica is vulcanised at low temperatures for twice the duration compared to regular tyres. This enables the increased blending between molecules that secures a solid driving performance and improved mileage.

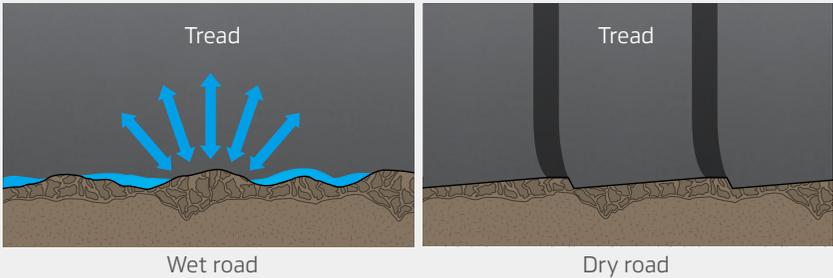


- Filler: Hydrophilic
- Functional group
- Polymer: Hydrophobic



The high concentration of silica and newly added substances maximises the grip force under different surface conditions and ranges.

- Advanced silica
- Conventional



Through the use of advanced silica compounds, performance on all types of wet and dry surfaces has been maximised.

Ride & Noise

COMFORTABILITY

We designed the inside and the outside differently to reduce noise.

G Inside & outside dual pitch

Inside

It presents improved performance in terms of hydroplaning and wet braking, by increasing the number of inner pitches (blocks) to secure the gaps for enhanced drainage.



Inside Outside



Outside

The number of outer pitches is optimised to secure the steering grip performance required for dry cornering, this is designed to contribute to the reduction of pattern noise as well.



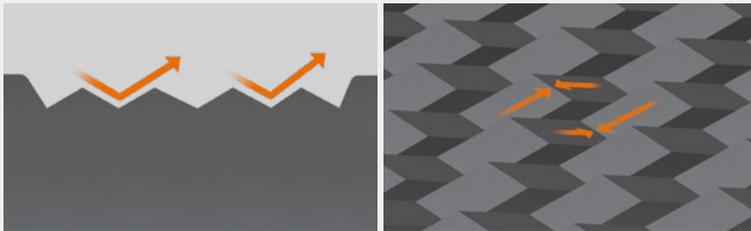
Ride & Noise

COMFORTABILITY

H Sidewall design

Reinforced sidewall block stiffness

The reinforced block stiffness is produced through the connection of lattice structured interlocking units, which surpasses those of conventional and independently aligned serration patterns.



Improved thermal circulation, air permeability and ride comfort

Adding to the effectiveness of thermal circulation and air permeability through the use of repetitively structured units, is that more than double the conventional serration patterns are securing spaces and height changes. This delivers improved ride comfort with an exceptional vertical bend and stretching capability, made possible by the structural forms which are conducive to the vertical buffering action of the tyre.



Tyre structure

Tread Compound

HSSC (Highly Enriched Synthetic Silica Compound) is a new compound, in which the highly purified and quality silica is vulcanised at low temperatures for twice the duration compared to regular tyres. This enables the increased blending between molecules that secures a solid driving performance and improved mileage.

Application of High Strength Steel Belt Wire

Using high strength belts that perfectly absorb external shock, the durability and comfort of the tyre has been greatly improved.

Aramid Hybrid Reinforcement Belt

Tyre strength has been increased to respond to high levels of initial output and initial acceleration.

Dual Layer Fibre Stiffener

With the dual structure of the carcass fibre stiffener, the resistance of the tyre is structurally assured.



Folded Belt Edge Tape

Endurance of the belt has been enhanced.

Strong Jointless Bead Wire

By increasing the binding force between the wheel and the joint, even with high initial acceleration, the tyre will always remain safely attached to the wheel.

Available sizes

We have a variety of OE sizes and inch-up sizes for luxury vehicles

M Code	Size	TW	Inch	R.R	Wet	PBN	Applied vehicle
25 Series							
1024285	265/25ZR20(Y) XL	265	20	E	A	73	BENZ C-CLASS (W204, REAR), BMW 3Ser. (E90, REAR)
30 Series							
1024300	245/30ZR19(Y) XL	245	19	E	A	72	BMW135i/228i (REAR), BENZ SLK350 (REAR)
1024301	255/30ZR19(Y) XL	255	19	C	A	73	AUDI S3, VW GOLF, BENZ C-CLASS (W204, REAR), BMW 3Ser. (E90, REAR)
1024302	265/30ZR19(Y) XL	265	19	C	A	73	BMW M3/M4 FRONT (TREAD UP)
1024303	275/30ZR19(Y) XL	275	19	C	A	73	BENZ E-CLASS (W211/W212, REAR)
1024304	285/30ZR19(Y) XL	285	19	C	A	75	BMW M3/M4 REAR (TREAD UP)
1024279	245/30ZR20(Y) XL	245	20	E	A	72	AUDI NEW R8 FRONT
1024280	255/30ZR20(Y) XL	255	20	C	A	73	LAMBORGHINI AVENTADOR FRONT
1024281	265/30ZR20(Y) XL	265	20	C	A	73	BENZ C-CLASS (W205, REAR), BMW 3Ser. (F30/G20, REAR), LEXUS IS (REAR)
1024282	275/30ZR20(Y) XL	275	20	C	A	73	BENZ E-CLASS (W213), BMW 5Ser. (F10/G30), AUDI A6 (C7/C8)
1024283	295/30ZR20(Y) XL	295	20	C	A	75	AUDI R8 (REAR), FERRARI 458 (REAR)
1024284	305/30ZR20(Y) XL	305	20	C	A	75	AUDI NEW R8 REAR, FERRARI 488 REAR
1024268	275/30ZR21(Y) XL	275	21	C	A	73	AUDI S7 (RS7)/RS5/RS6
1024269	285/30ZR21(Y) XL	285	21	C	A	75	BMW 7Ser. (REAR), BENZ S (REAR), AUDI A8, MASERATI GHIBLI/QUATTROPORTE (REAR), LEXUS LS (REAR)
1024262	255/30ZR22(Y) XL	255	22	C	A	73	BMW 7Ser. (FRONT), BENZ S-CLASS (FRONT)
1024263	265/30ZR22(Y) XL	265	22	C	A	73	PORSCHE NEW PANAMERA TURBO (FRONT), AUDI A8 Inch-up

M Code	Size	TW	Inch	R.R	Wet	PBN	Applied vehicle
35 Series							
1024319	245/35ZR18(Y) XL	245	18	E	A	72	BMW135i/228i (REAR), BENZ SLK350 (REAR)
1024320	255/35ZR18(Y) XL	255	18	E	A	73	BENZ C-CLASS (W204, FRONT), BMW 3Ser. (E90, FRONT)
1024321	265/35ZR18(Y) XL	265	18	C	A	73	BMW M3 (E46, REAR)
1024322	275/35ZR18(Y) XL	275	18	C	A	73	BENZ E-CLASS (W211/W212, REAR), BMW 5Ser. (E60, REAR)
1024293	215/35ZR19Y XL	215	19	E	A	72	AUDI A1, MINI COOPER, FORD FIESTA, VW POLO
1024294	225/35ZR19(Y) XL	225	19	C	A	72	AUDI S3, VW GOLF, BENZ C-CLASS (W204, FRONT), BMW 3Ser. (E90, FRONT), FORD FOCUS
1024295	235/35ZR19(Y) XL	235	19	C	A	72	PORSCHE 911 CARERRA/FERRARI F430 FRONT
1024296	245/35ZR19(Y) XL	245	19	C	A	72	BENZ C63 (FRONT), E-CLASS (W212, FRONT)
1024297	255/35ZR19(Y) XL	255	19	C	A	73	BMW M3/M4 (FRONT)
1024298	275/35ZR19(Y) XL	275	19	C	A	73	BENZ E-CLASS (W213, REAR), BMW 5Ser. (F10/G30, REAR), BMW M3/M4 (REAR), J AGUAR XF (REAR)
1024272	225/35ZR20(Y) XL	225	20	C	A	72	BENZ C-CLASS (W205, FRONT), BMW 3Ser. (F30/G20, FRONT), LEXUS IS (FRONT)
1024273	235/35ZR20(Y) XL	235	20	C	A	72	PORSCHE BOXTER/CAYMAN (FRONT)
1024274	245/35ZR20(Y) XL	245	20	C	A	72	FERRARI 458/488 (FRONT), BENZ E-CLASS (W213, FRONT), BMW 5Ser. (F10/G30, FRONT), JAGUAR XF
1024275	255/35ZR20(Y) XL	255	20	C	A	73	BENZ E-CLASS (W213, FRONT), BMW 5Ser. (F10/G30, FRONT), JAGUAR XF
1024276	265/35ZR20(Y) XL	265	20	C	A	73	AUDI S6/A7, PORSCHE BOXTER/CAYMAN (REAR)
1024277	275/35ZR20(Y) XL	275	20	C	A	73	BENZ S-CLASS (W222, REAR), BMW 7Ser. (F10/G10, REAR), JAGUAR XJ (REAR), BMW M5 (F90, FRONT)
1024575	285/35ZR20(Y) XL	285	20	C	A	75	BMW M5 (F10&F90), NISSAN GTR REAR, MASERATI GHIBLI/QUATTROPORTE (REAR)
1024587	295/35ZR20(Y) XL	295	20	C	A	75	FERRARI 458 REAR
1024265	245/35ZR21(Y) XL	245	21	C	A	72	BMW 7Ser (FRONT), BENZ S (FRONT), LEXUS LS (FRONT), MASERATI GHIBLI/QUATTROPORTE (FRONT)
1024266	265/35ZR21(Y) XL	265	21	C	A	73	AUDI A7, TESLA MODEL S (REAR)
1024267	275/35ZR21(Y) XL	275	21	C	A	73	AUDI RS6/7 OE (*19.03 SOP)

M Code	Size	TW	Inch	R.R	Wet	PBN	Applied vehicle
40 Series							
1024312	205/40ZR18Y XL	205	18	C	A	72	MINI COOPER Inch-up
1024313	215/40ZR18Y XL	215	18	C	A	72	AUDI A1, MINI COOPER, FORD FIESTA, VW POLO
1024314	225/40ZR18Y XL	225	18	C	A	72	AUDI S3, VW GOLF, BENZ C-CLASS (W204, FRONT), BMW 3Ser. (E90, FRONT), FORD FOCUS
1024315	235/40ZR18Y XL	235	18	C	A	72	VW CC/PASSAT, BENZ A45AMG
1024255	245/40ZR18Y XL	245	18	C	A	72	BENZ E-CLASS (W211/W212), C-CLASS (W205, REAR), AUDI A4 (B9), BMW 5Ser(E60)
1024316	255/40ZR18Y XL	255	18	C	A	73	BMW 3Ser (F30/G20, REAR), AUDI A6 (C6)
1024318	275/40ZR18Y XL	275	18	C	A	73	BENZ E-CLASS (W213, REAR), BMW 5Ser (F10/G30, REAR), JAGUAR XF (REAR)
1024289	225/40ZR19(Y) XL	225	19	C	A	72	BENZ C-CLASS (W205, FRONT), BMW 3Ser. (F30/G20, FRONT), LEXUS IS (FRONT)
1024290	245/40ZR19(Y) XL	245	19	C	A	72	BENZ E-CLASS (W213), BMW 5Ser. (F10/G30, FRONT), JAGUAR XF
1024291	255/40ZR19(Y) XL	255	19	C	A	73	AUDI A6 (C7/C8), FORD MUSTANG, BMW M5 (E60, FRONT)
1024292	275/40ZR19(Y) XL	275	19	C	A	73	BENZ S-CLASS (W222, REAR), BMW 7Ser. (F10/G10, REAR), JAGUAR XJ (REAR)
1024574	285/40ZR19Y XL	285	19	C	A	75	BENZ S-CLASS (REAR), MASERATI Ghibli/QUATTROPORTE (REAR)
1024270	245/40ZR20(Y) XL	245	20	C	A	72	BENZ S-CLASS (W222, FRONT), BMW 7Ser. (F10/G10, FRONT), JAGUAR XJ (FRONT), MASERATI Ghibli/QUATTROPORTE (FRONT)
1024271	265/40ZR20(Y) XL	265	20	C	A	73	AUDI A8

M Code	Size	TW	Inch	R.R	Wet	PBN	Applied vehicle
45 Series							
1024371	225/45ZR17Y XL	225	17	C	A	72	VW GOLF, BMW 1Ser./3Ser (E90), BENZ A-CLASS/C-CLASS (W204), FORD FOCUS, PEUGEOT 308
1024307	215/45ZR18Y XL	215	18	C	A	72	MAZDA3
1024308	235/45ZR18Y XL	235	18	C	A	72	VW PASSAT, FORD MONDEO
1024309	245/45ZR18Y XL	245	18	C	A	72	BENZ E-CLASS (W213), BMW 5Ser. (F10/G30), AUDI A6 (C7/C8)
1024310	255/45ZR18Y XL	255	18	C	A	73	AUDI A6 (C7/C8)
1024286	225/45ZR19Y XL	225	19	C	A	72	MAZDA6, INFINITI G (FRONT)
1024573	235/45ZR19Y XL	235	19	C	A	72	MASERATI GHIBLI (FRONT), BENZ GLA, FORD ESCAPE
1024287	245/45ZR19Y XL	245	19	C	A	72	BENZ S-CLASS (W222, FRONT), BMW 7Ser. (F10/G10, FRONT), JAGUAR XJ (FRONT)
1024288	255/45ZR19Y XL	255	19	C	A	73	BENZ S-CLASS, AUDI A8
50 Series							
1024324	225/50ZR17Y XL	225	17	C	A	72	BENZ C-CLASS (W205), BMW 3Ser. (F30/G20), AUDI A4 (B9)
1024305	225/50ZR18Y XL	225	18	C	A	72	INFINITI G/370Z (FRONT)



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