

HANKOOK
driving emotion



Global
Partner



ventus S1 evo³

Powerful performance and superior handling for luxury vehicles



Contents

Features and performance information

Key performance

Product concept

Marketing

Positioning map

Customer benefits and technology

Tyre structure

Available sizes



ventus S1evo³



Technical profile

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

Technology & Performance icons



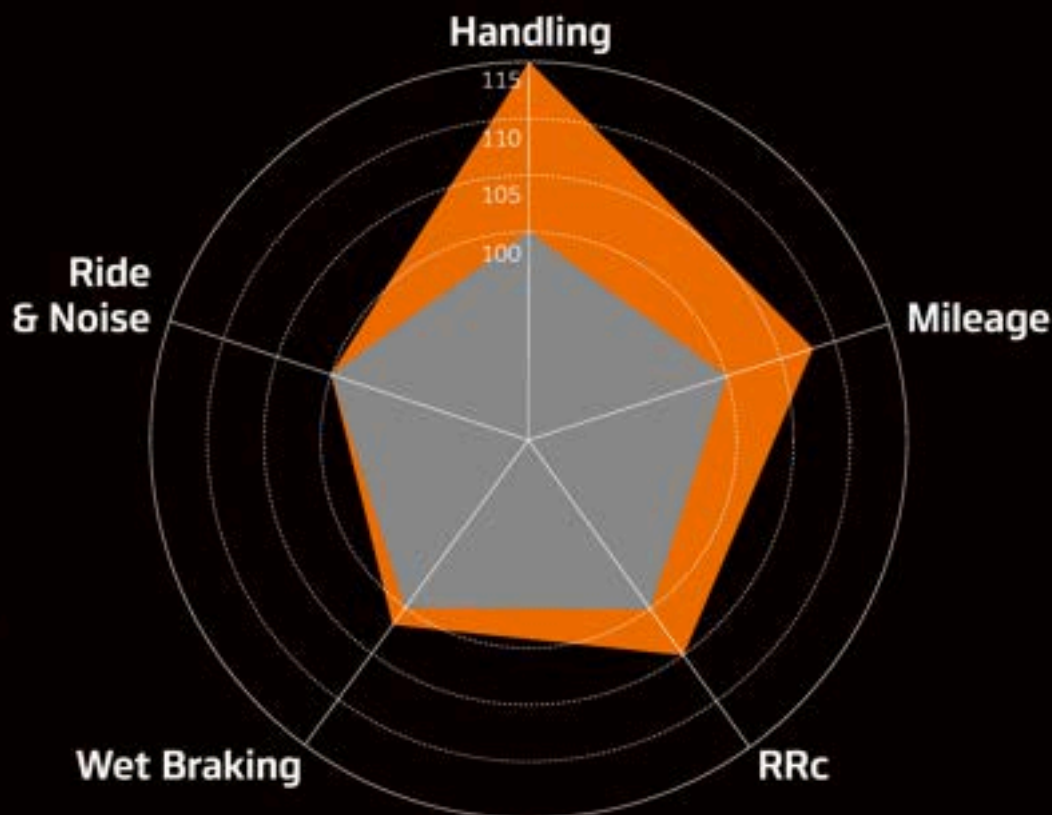
Key performance

Powerful performance and superior handling for luxury vehicles

Improvement in performance compared to predecessor

■ **ventus S1^{evo}2**
■ **ventus S1^{evo}3**

* 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

Powerful performance and superior handling for luxury vehicles

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.



ventus S1evo³

HANKOOK
driving emotion

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



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

ventus S1evo²

2012



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

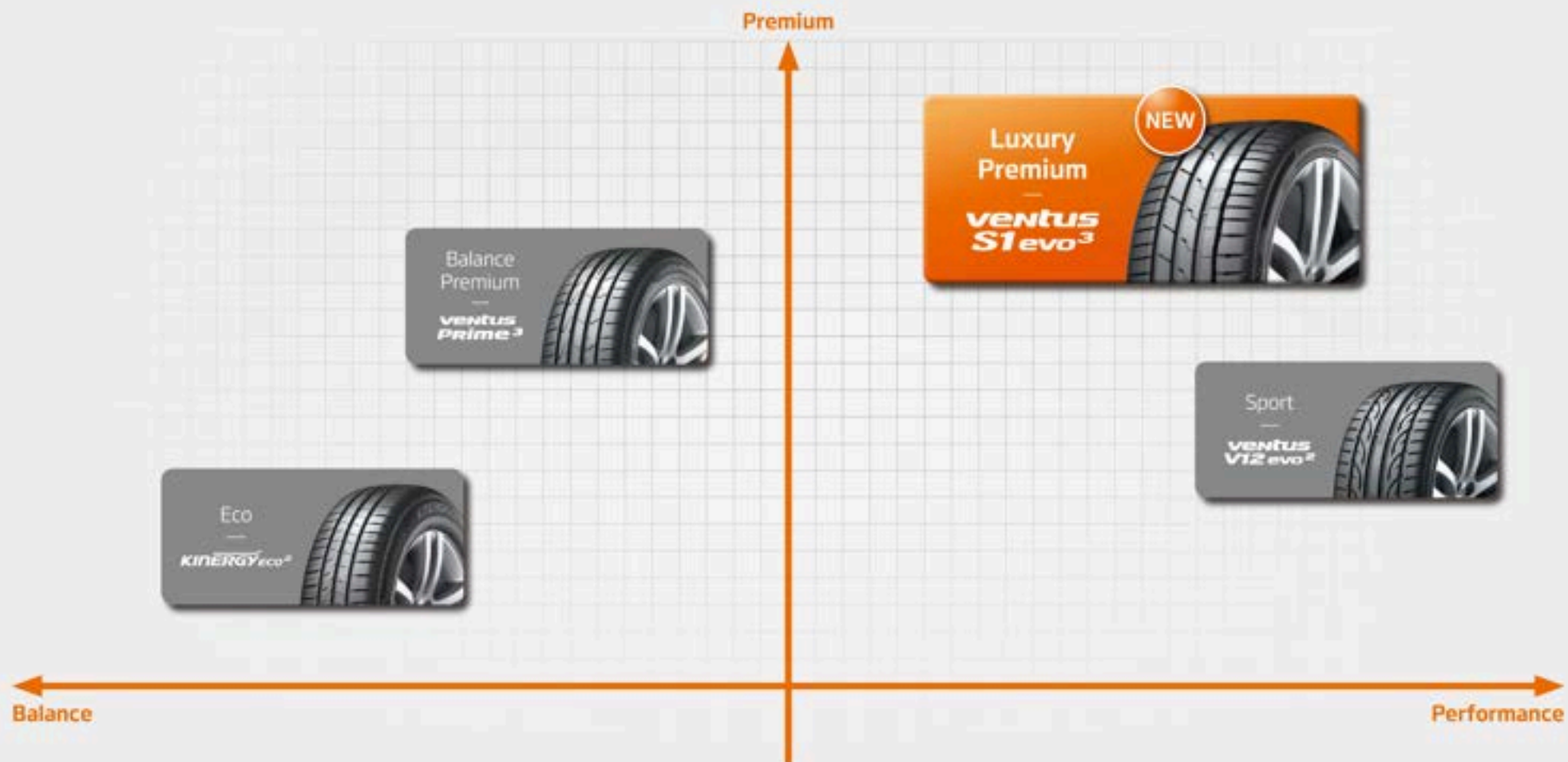
ventus S1evo³

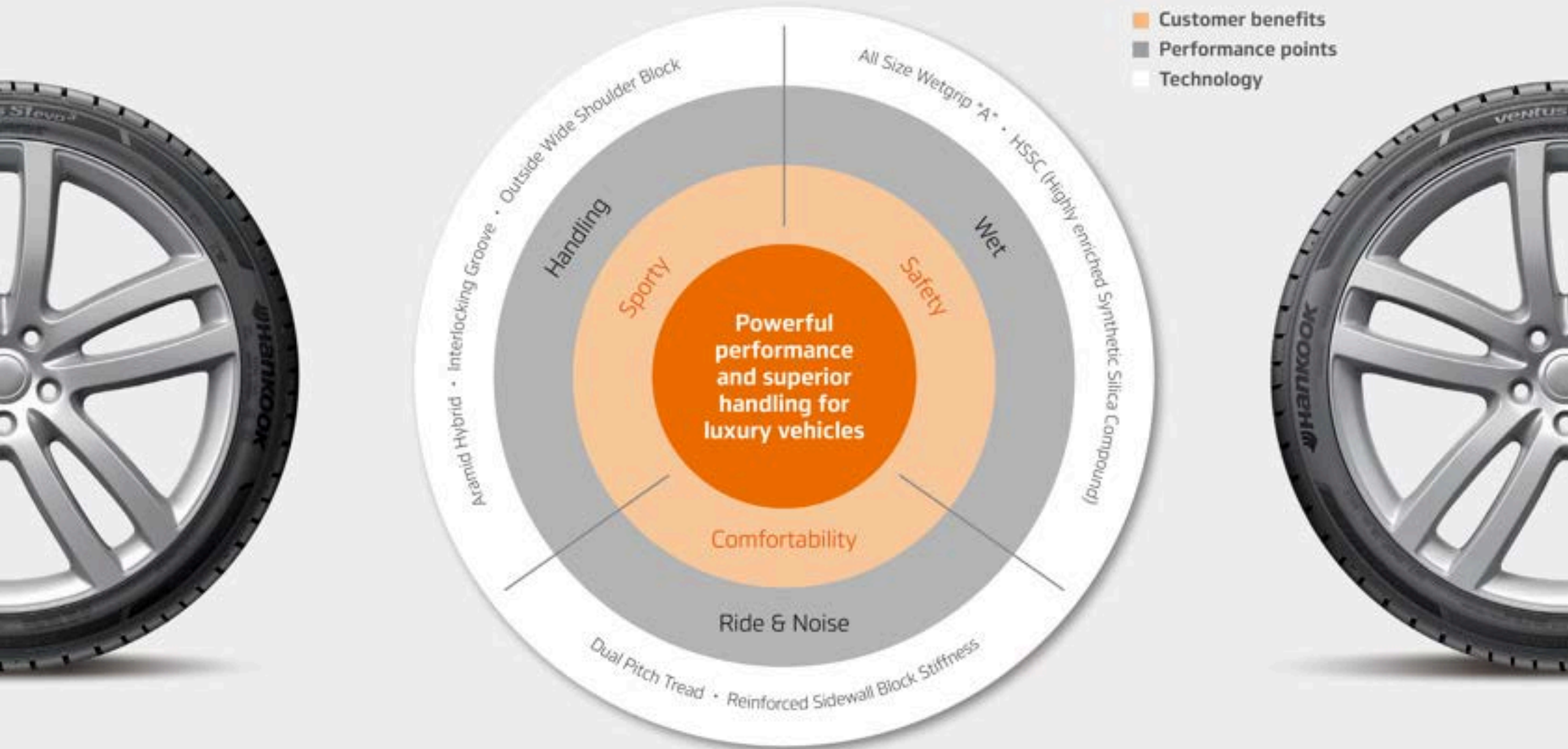
2019



"Ventus S1 evo³ aims to achieve
superiority due to its premium
performance, safety and comfort."

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.

Aramid in tyre

ventus S1evo²ventus S1evo³

Handling

SPORTY

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



Racing car tyres



Aramid fibre



Fireproof clothing



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 ventus S1 evo³
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%.

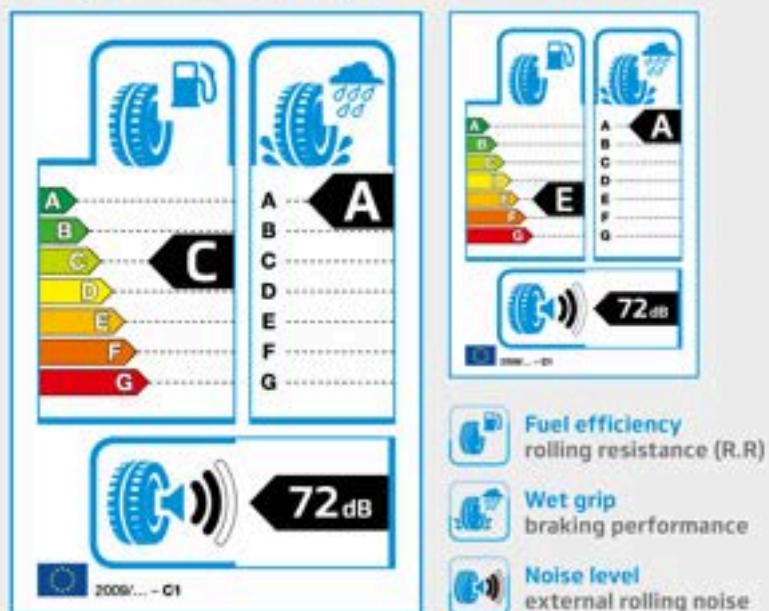


Wet

SAFETY

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

EU tyre labelling regulations



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



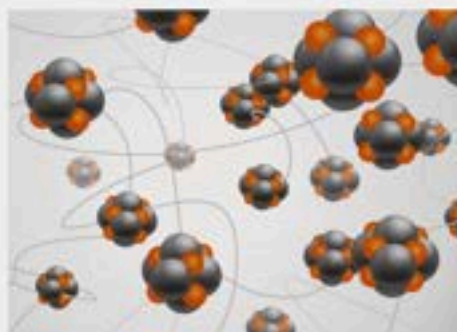
Wet

SAFETY

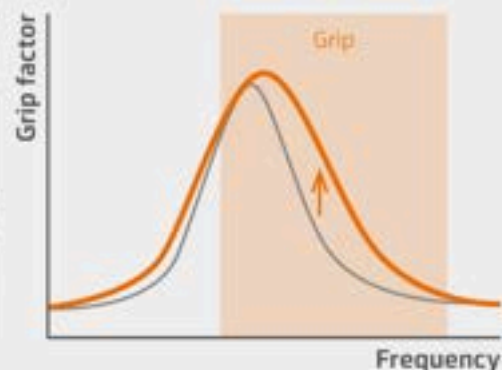
HSSC (Highly Enriched Synthetic Silica Compound) provides the ultra grip on wet surfaces.

F 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.

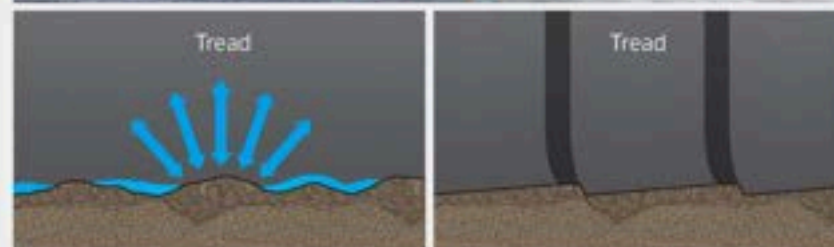
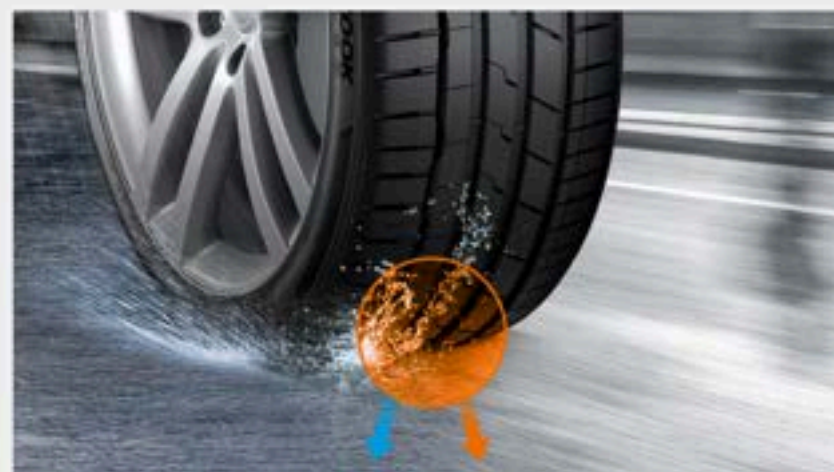


- Filler: Hydrophilic
- Functional group
- Polymer: Hydrophobic



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

- Advanced silica
- Conventional



Wet road

Dry road

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.



Wet braking



Hydroplaning

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.



Dry handling



Low noise

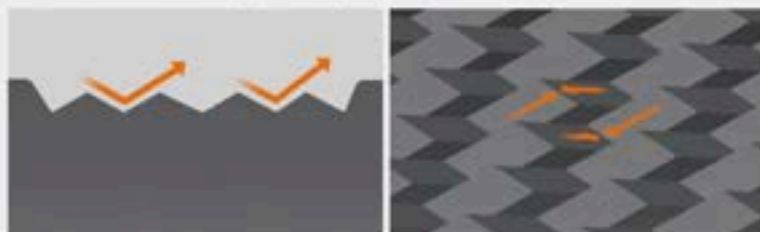
Ride & Noise

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.



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.



