
# ventus S1 evo³

*Powerful performance and superior handling for luxury vehicles*

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Features and performance information
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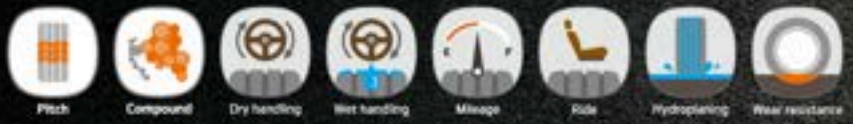
# ventus S1 evo3


## Technical profile

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

## Technology & Performance icons

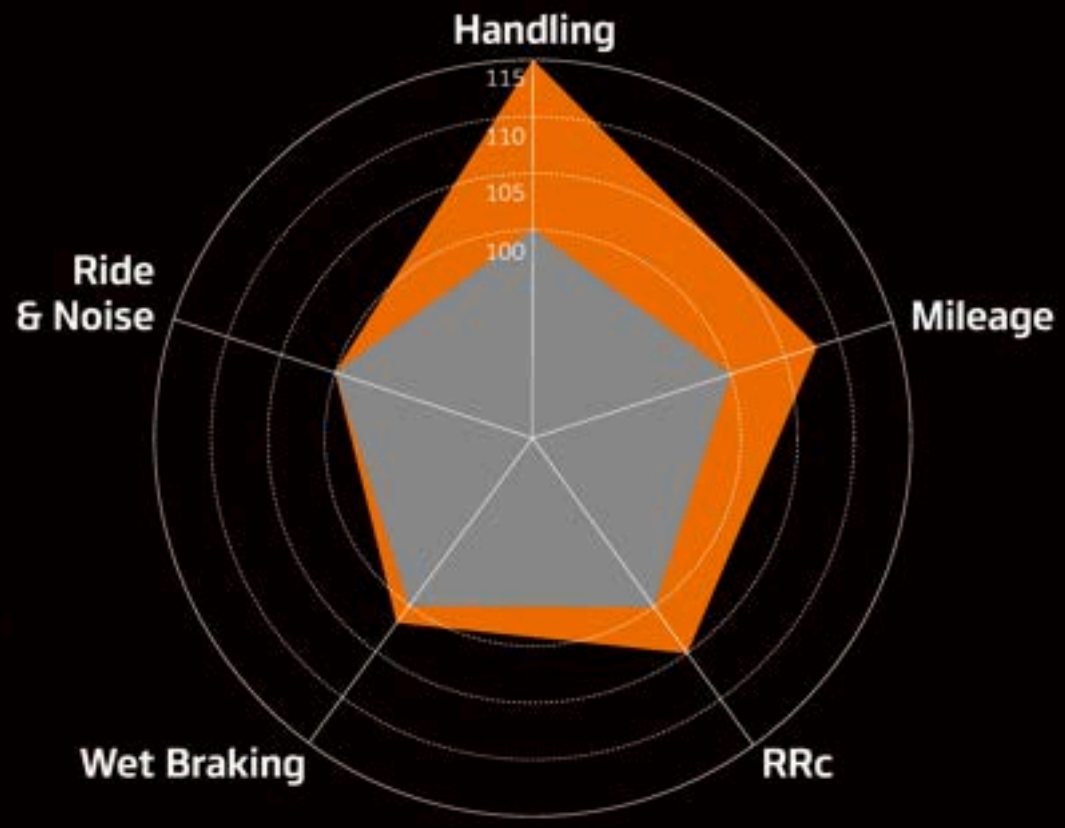


# Key performance

Improvement in performance compared to predecessor

* Handling data refers to dry handling data.

ventus S1 evo²
ventus S1 evo³




**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.

**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.

# 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 S1 evo

3D wave groove

2005

Ford Fiesta

## ventus S1 evo²

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 S1 evo³

Interlocking groove

2019 NEW

AUDI RS6 & RS7
Porsche Cayenne

# Reliable performance represented by results

## ventus S1 evo
2005

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

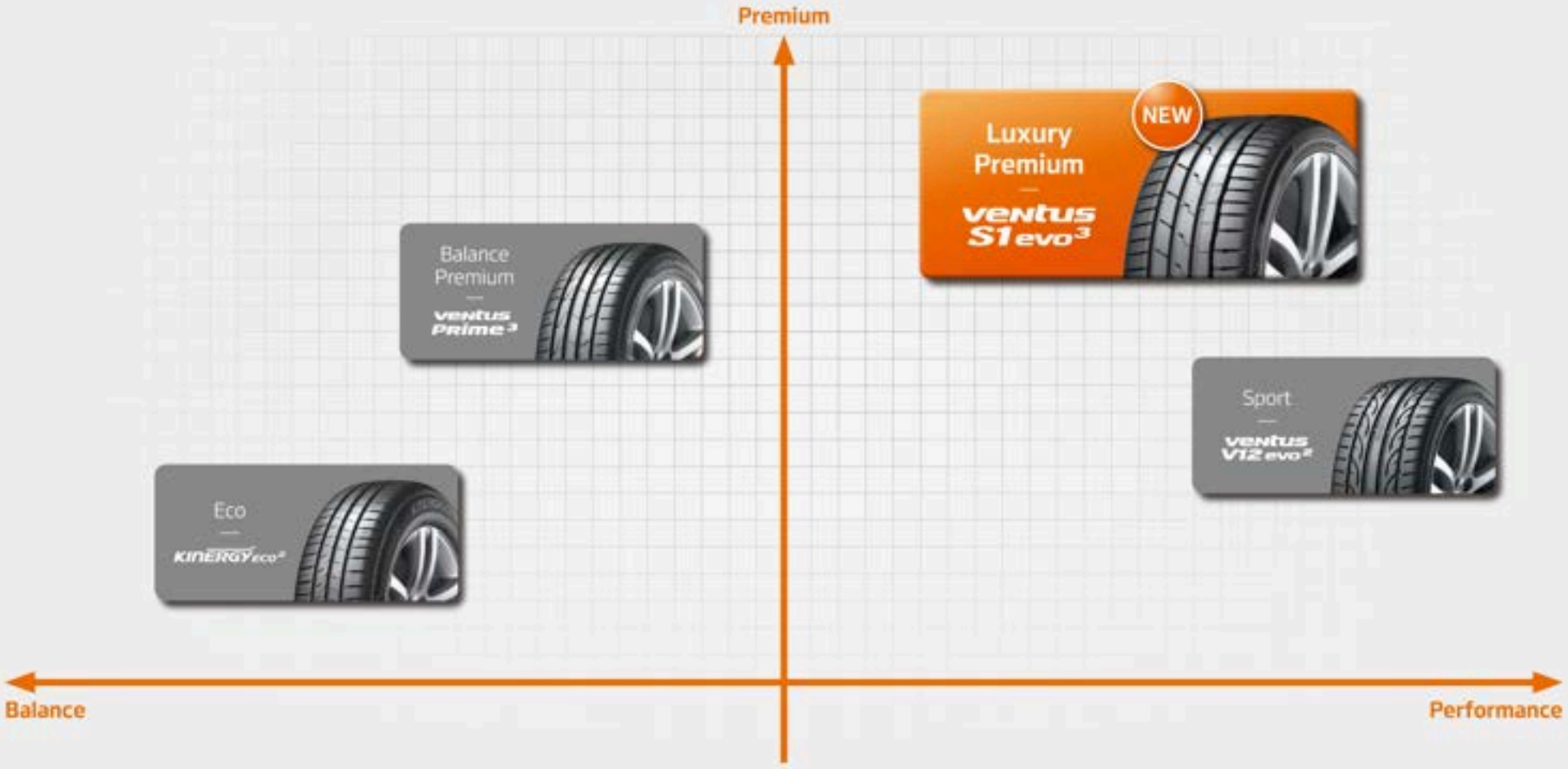
## ventus S1 evo²
2012

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

## ventus S1 evo³
2019

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

# Passenger car



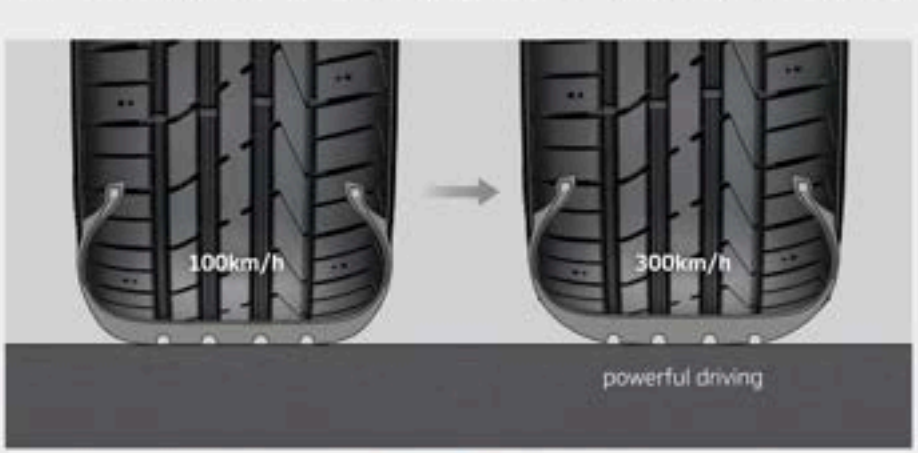

Customer benefits
Performance points
Technology
Handling
Wet
Ride & Noise
Sporty
Safety
Comfortability
Powerful performance and superior handling for luxury vehicles
Aramid Hybrid • Interlocking Groove • Outside Wide Shoulder Block
All Size Wetgrip "A" • HSSC (Highly enriched Synthetic Silica Compound)
Dual Pitch Tread • Reinforced Sidewall Block Stiffness

# 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.




ventus S1evo²


ventus 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.


* Aramid fibre image by KOLON Industries

# Handling

**SPORTY**

## C Interlocking groove

Ventus S1 evo[3] 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 S1evo3 |
|---|---|---|
| **Dry handling** | 100 | 100 |
| **Wet handling** | 100 | **104** |

# Handling

**SPORTY**

## D Highly stiff outside shoulder

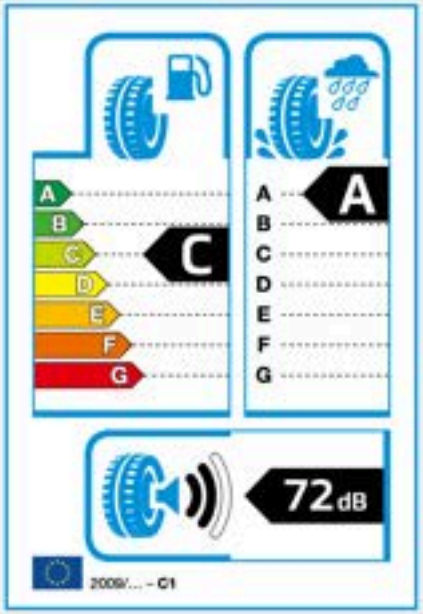
The outer blocks and shoulders of the tyre, where heavy loads and contact pressure are concentrated due to cornering, are expanded. The maximum steering grip force is secured by the dual action of the aramid hybrid reinforcement belt, which secures the flat contact surface under any conditions. This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

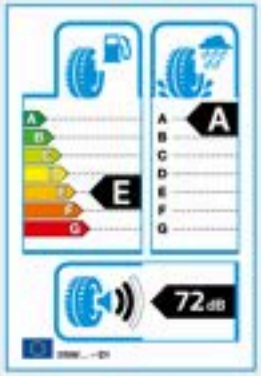

# Wet

**SAFETY**

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

## E EU tyre labelling regulations




**Fuel efficiency**
rolling resistance (R.R)

**Wet grip**
braking performance

**Noise level**
external rolling noise

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

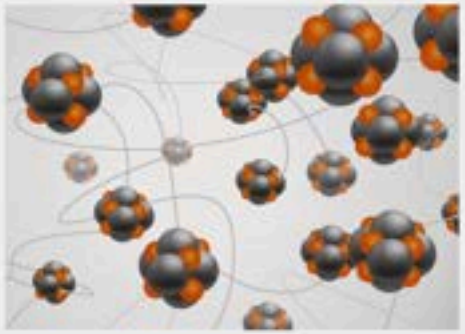
# Wet

**SAFETY**

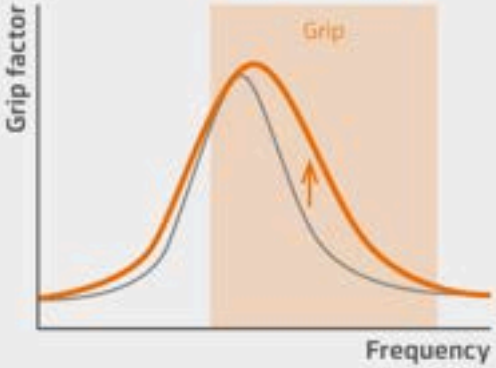
HSSC (Highly Enriched Synthetic Silica Compound) provides the ultra grip on wet surfaces.

## 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.

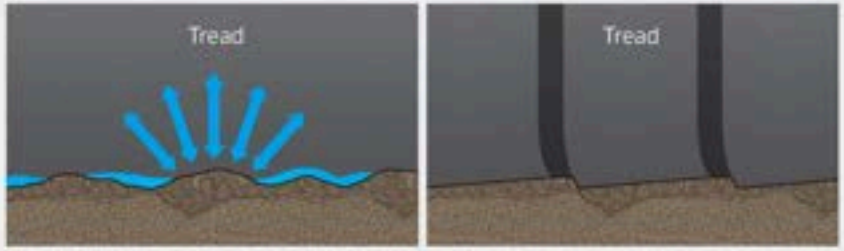


- Filler: Hydrophilic
- Functional group
- Polymer: Hydrophobic




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.



### 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

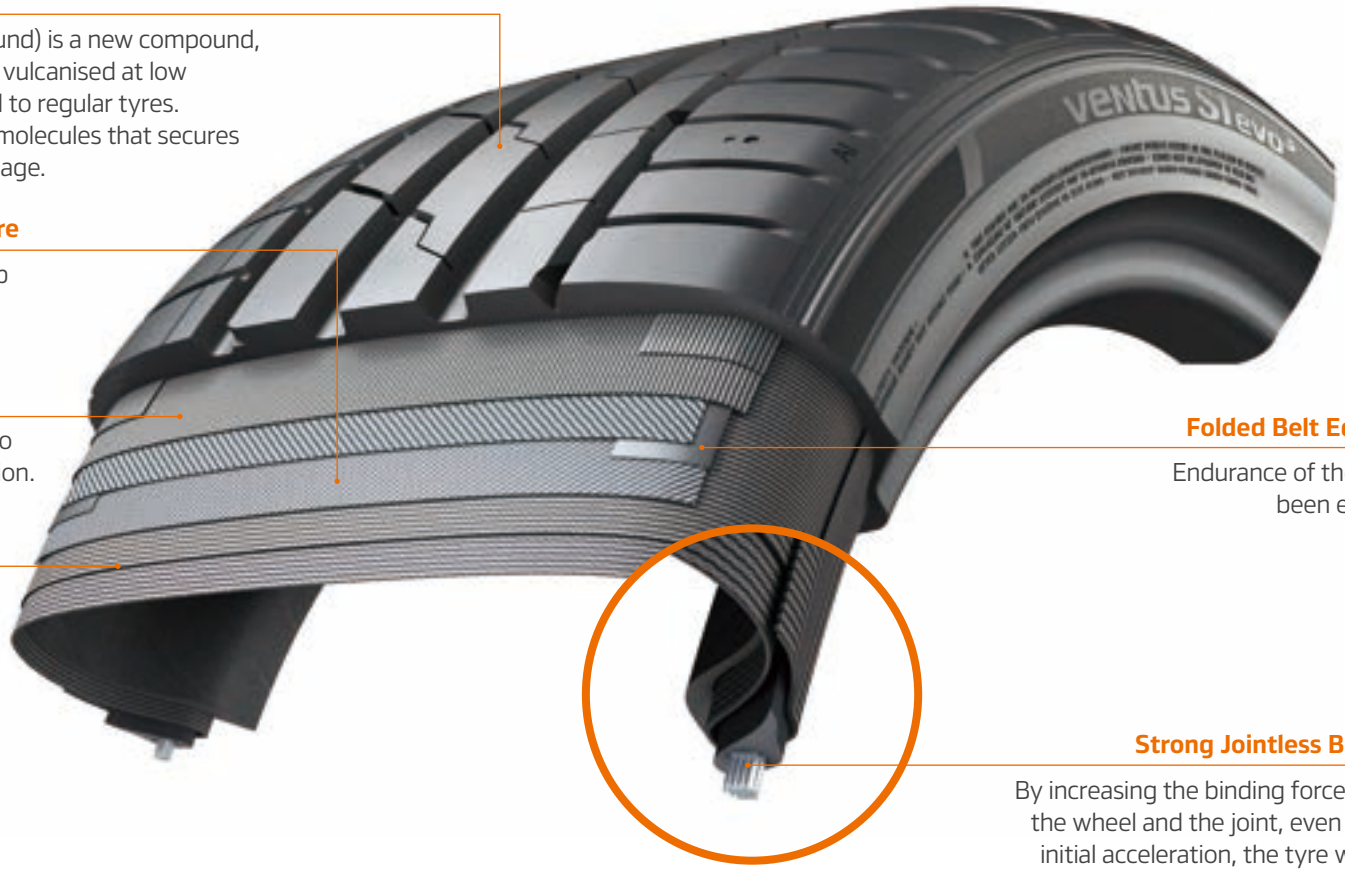
Using high strength belts that perfectly absorb external shock, the durability and comfort of the tyre has been greatly improved.

### 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.


HANKOOK
driving emotion