

ventus Prime³

The perfect balance between performance and safety



Contents

Features and performance information Key performance Design features and technology Available sizes

ventus Prime³



Technology icon



Performance icon



Technical profile

Speed symbol : H, V, W, Y Tread width (mm) : 185~245 Series (aspect ratio) : 40~65 Rim diameter (inch) : 15~18



Key performance

Improvement in performance compared to predecessor.





Wet performance

A Wide 4 channel grooves

Provides superior wet performance through rapid drainage.

Wet braking





Description of the specific grooves by position.

All groove depths are designed by their position for optimised stiffness.

 \rightarrow Minimised trade-off of dry and wet performance to ensure the balance of each.

The actual contact area ratio



- Wet handling - Wet braking - Dry braking



Dry performance

Enhanced tread block stiffness

By applying an optimised design technology the actual contact area ratio is increased and stiffness improved.

 \rightarrow Superior handling and braking performance on dry surfaces.





Pattern stiffness

Conventional **Ventus Prime**³





Conventional **ventus Prime**³



Dry performance



C Optimised new profile

The optimised profile ensures the best tyre performance in highspeed driving conditions.

D Groove chamfer





Dry performance



E Hybrid hardness design

Optimised handling performance by dual stiffness of ribs.

F Solid outside block



Provides stability and superior handling performance through maximising the outside block rigidity.

G Rib type tread



Enhanced handling and rolling resistance performance.



Design features and technology -

Noise

H Noise care pitch



Noise reduction through an optimised pitch design.



Optimised lateral groove angle



The above simulation was conducted using a variety of contact edge radius.



Design features and technology

Conventional **ventus** Prime³

Noise

Even after wear, pattern noise is reduced compared to the existing product through new main groove positioning technology.

Conventional **Ventus Prime**³

Before wear







After driving 20,000Km



Speed (KPH)



Design features and technology

VAI (Visual alignment indicator) system

The visual alignment indicator provides an easy to check tyre alignment. Compare the wear on sipes located on both of the tyres shoulders and then realign if necessary.



J VAI

Indicator marks that have different depths can help easily identify the degree of tyre wear.

Before use









Design features and technology

Anti-air resistance sidewall

K Anti-air resistance sidewall

Anti-air resistance sidewall design marked with check shaped dimples minimises noise and vibration levels by reducing air turbulence when driving.







Design features and technology -

Compound

New compound

New compound improves wet and wear performance without sacrificing other performance.



Applying a high molecular weight functionalised polymer means wear performance is improved.



Optimised mixing technology for high loading filler and polymer means wet and wear performance is proved.



Better dispersion



Hankook driving emotion

Tyre structure

High grip silica compound

Improved dry / wet traction and lower rolling resistance.

Jointless full cover reinforcement belt

Ideal tread strength.

Wide steel belt layer

Better dry and wet handling.

Equilibrium rayon carcass line

Enhance sidewall stiffness and durability.



Improved uniformity and tyre fitting.



