

ventus S1evo²

The new VENTUS S1 evo² high-end performance UHP tire



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The best balance between wet and dry performance!

intervoz Greno Performance UHP Tire

A controlled and precise cornering ability when driving at higher speeds. Satisfies both performance and environmental needs through minimization of rolling resistance and optimal implementation of the profile. Dry performance maximization by optimized block stiffness.



VENTUS S1 evo² engineered by DTM Technology



DTM

Hankook tire is the official sponsor of DTM - The most popular international touring car series.





ventus S1evo²



Technology icon



Performance icon



Technical profile

Speed symbol : V. W. Y Tread width : 205~335 Series : 30~60 Rim diameter : 16~20



Key performance

Improvement in performance compared to predecessor.





driving emotion

Design feature

High-end sport performance through advanced technology



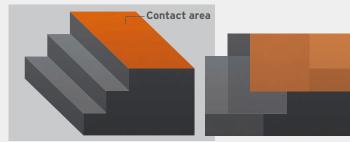
Triple layered block

As the tire wear progresses down to TWI, traction performance is improved!

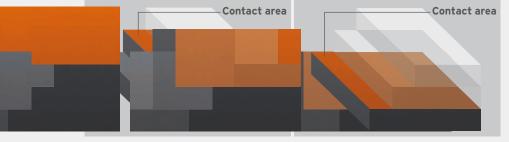
A Triple layered block

The staircase arrangement of the outer rib blocks, is designed to increase the tire contact patch with the surface as the wear rate increases.

Before use



After use



1'st surface worn

2'nd surface worn





Design feature

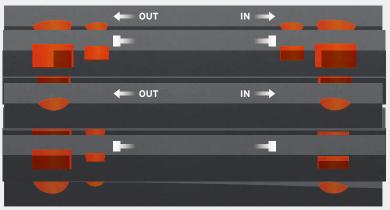
VAI siping system (alignment indicator)

The visual alignment indicator (VAI) siping system provides an easy way to check tire alignment. Compare the wear on the sipes located on both of the tire's shoulders, and then realign as necessary.

B VAI

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

Before use







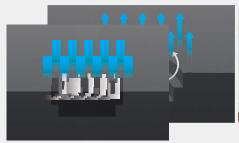


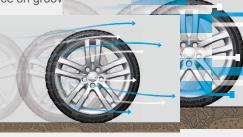


Intercooler and cooling system

C Intercooler

Heat regulated by generating turbulence on groov





Cooling system

Increased contact area induces the rapid release of heat and ensures excellent performance in driving conditions.



Conventional

ventus S1 evo²



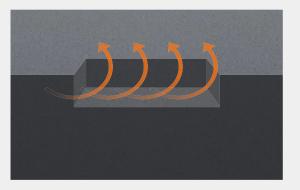


Aero dynamic sidewall

Aero sidewall design through rectangular dimples minimized noise and vibration level by reducing air turbulence in driving.

E Aero-sidewall dimple

Dynamic graphic design that matches tread pattern brings out sportiness on the sidewall. Aero dynamic sidewall design through rectangular dimples minimize noise and vibration levels by reducing air turbulence whilst driving.







Tire structure

High grip silica compound

Improved dry/wet traction and lower rolling resistance.

Jointless full cover

Ideal tread strength.

Wide steel belt layer

Better dry and wet handling.

Equilibrium rayon carcass line

Enhance sidewall stiffness and durability.

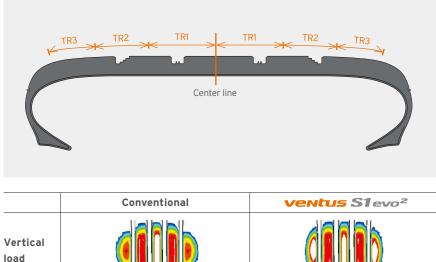




DTM Technology

Optimized triple TR(Tread Radius) system based on DTM racing profile technology ensures the best tire performance in high-speed driving condition.

DTM Technology



Lateral

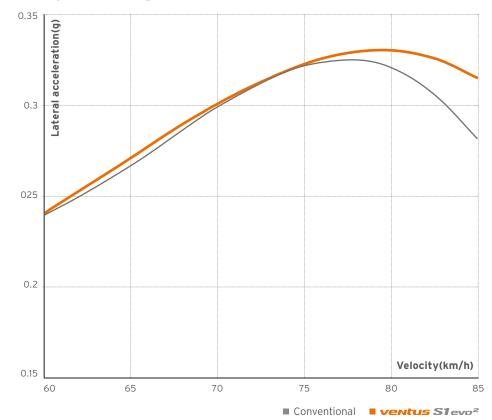
Increased contact area

load

· Excellent handling performance.

Improved shoulder roundness · Improved hydroplaning performance.

Hydroplaning lateral G



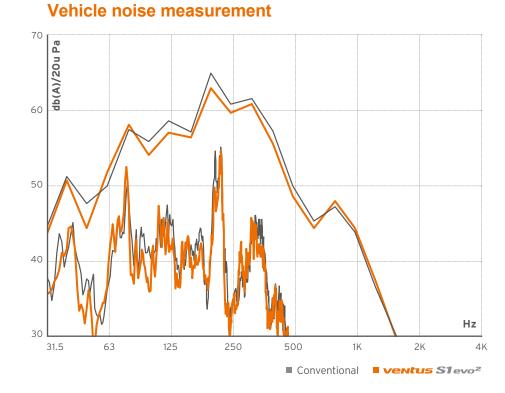


Technical presentation

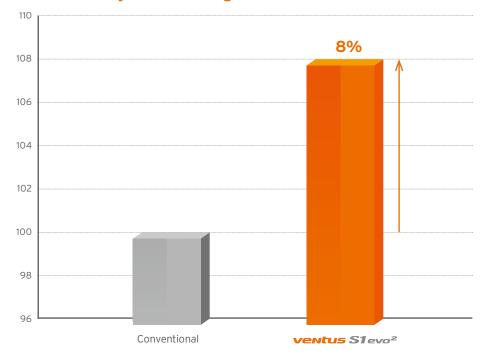
Noise

Optimized pitch length and order optimized lateral groove angle.

 \rightarrow Noise reduction across the entire area compared to the existing products.



Noise subjective testing

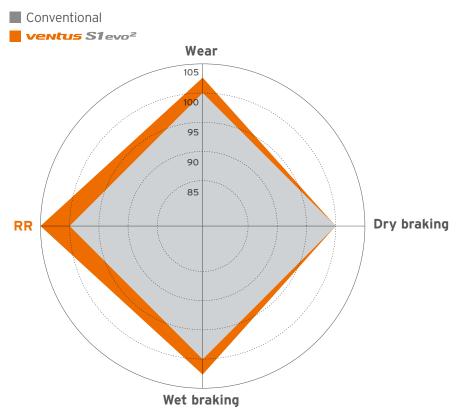




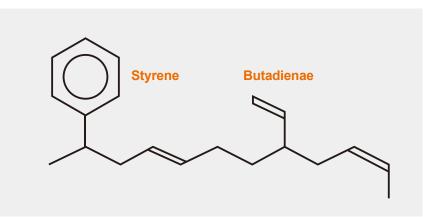
Compound technology

By applying high styrene polymer featuring high hysteresis, rolling resistance performance is improved.

Rolling resistance performance



High styrene (Bulky)



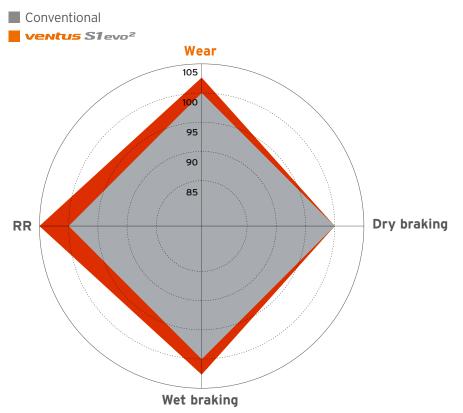
High hysteresis. High wet braking performance.



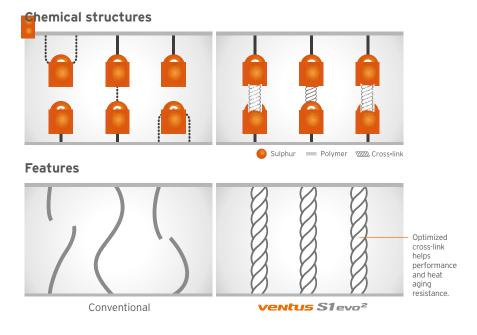
Compound technology

By applying an optimized cross-linking system, durability of abrasion performance is improved.

Durability of abrasion performance



High stirene polymer compound

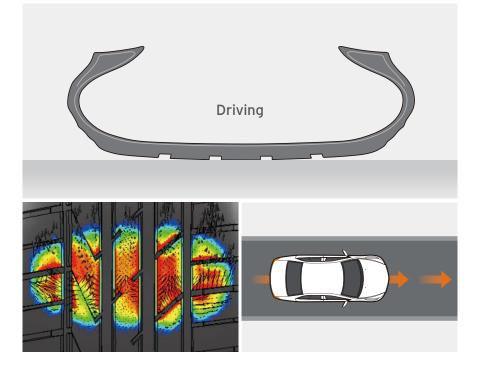




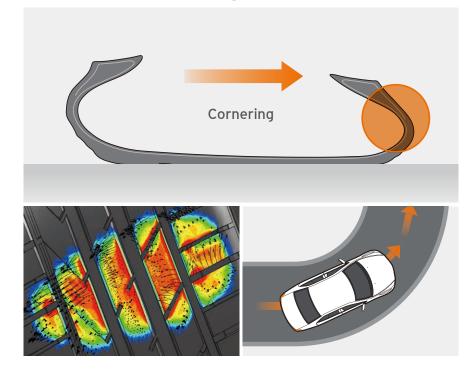
Dry and wet performance (handling)

Even loads transfer vertically and laterally, they maintain a stable foot shape through an optimal design based on multiple tread radius profile and equilibrium carcass line. \rightarrow Providing the best handling performance.

Traction force at driving



Traction force at cornering



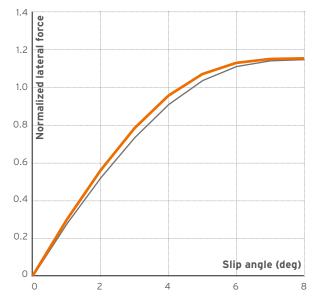


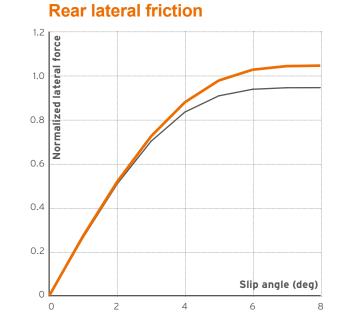
Dry and wet performance (handling)

Apply high grip compound and optimal structure to maximize front / rear wheel grip. Despite the grip balance of front / rear combination, obtained faster response compared to existing products.

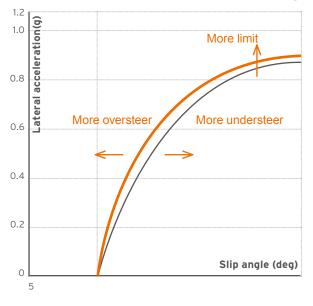
 \rightarrow Maximum grip improved.

Front lateral friction





Understeer and oversteer tendency



Conventional **Ventus S1evo**²



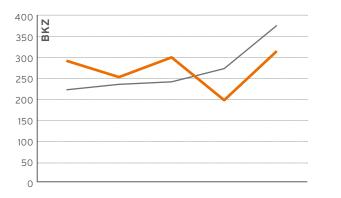
Dry and wet performance (braking)

Extremely short braking distances on wet and dry surfaces by optimizing balance of the tread block stiffness.

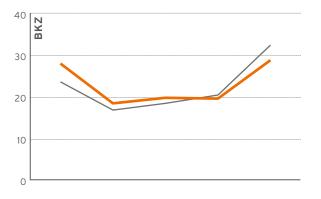
Stopping distance



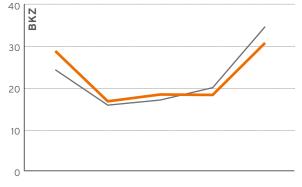
Vertical



Longitudinal



Lateral



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