

VENTUS S1evo²

The new VENTUS S1 evo² high-end performance UHP tire





The best balance between wet and dry performance!

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. ion Stevo 2
ion Envi performance UMP Tire





VENTUS S1evo²



Technology icon







Alignment indicator

Intercooler

Compound

Performance icon







Low noise

Low-RR

Dry braking

Technical profile

Speed symbol: V. W. Y Tread width: 205~335

Series: 30~60 Rim diameter: 16~20

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Improvement in performance compared to predecessor.







High-end sport performance through advanced technology







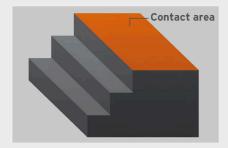
Triple layered block

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

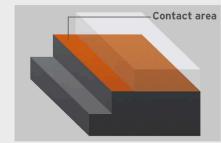
A Triple layered block

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

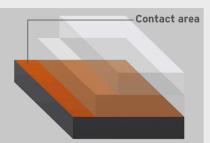
Before use



After use







2'nd surface worn







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

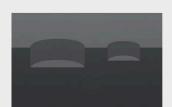


After use (regular wear)

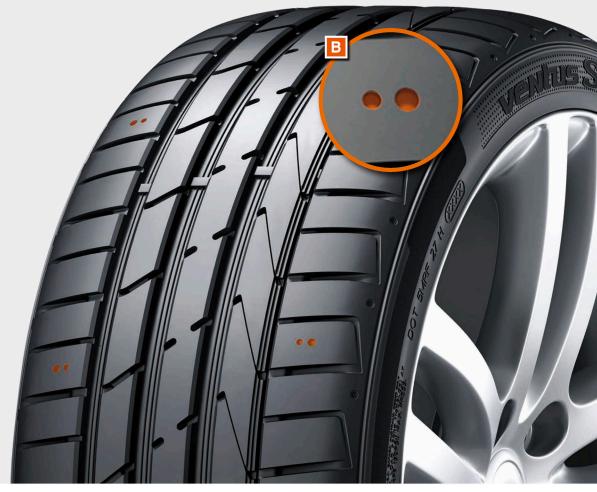


After use (irregular wear)





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





Intercooler and cooling system

c Intercooler

Heat regulated by generating turbulence on grooves on the tire surface.



Cooling system

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





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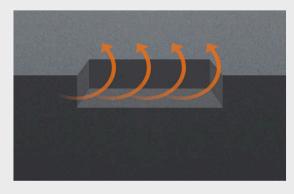


Aero dynamic sidewall

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



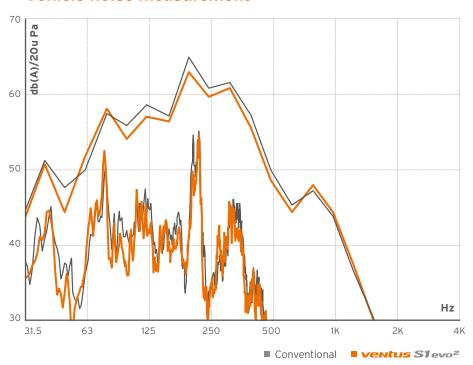


Noise

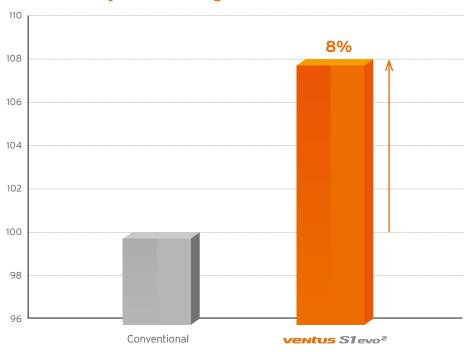
Optimized pitch length and order optimized lateral groove angle.

→ Noise reduction across the entire area compared to the existing products.

Vehicle noise measurement



Noise subjective testing





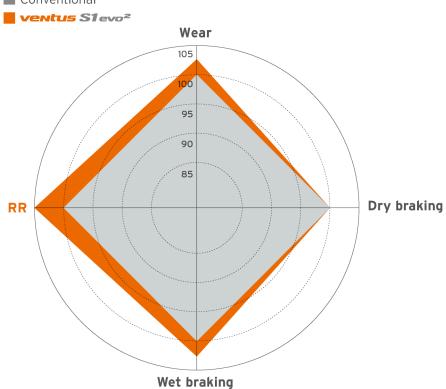


Compound technology

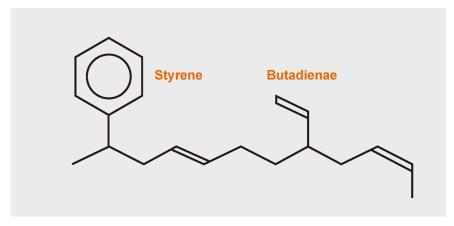
By applying high styrene polymer featuring high hysteresis, rolling resistance performance is improved.

Rolling resistance performance





High styrene (Bulky)



High hysteresis.

High wet braking performance.

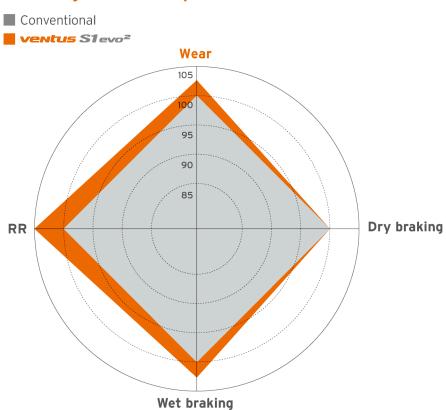




Compound technology

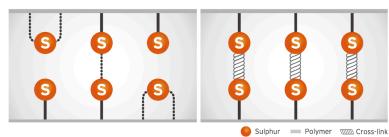
By applying an optimized cross-linking system, durability of abrasion performance is improved.

Durability of abrasion performance



High stirene polymer compound

Chemical structures



Features



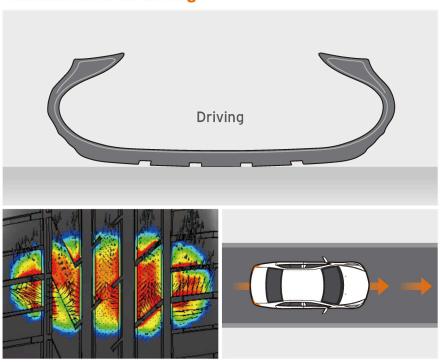


Dry and wet performance (handling)

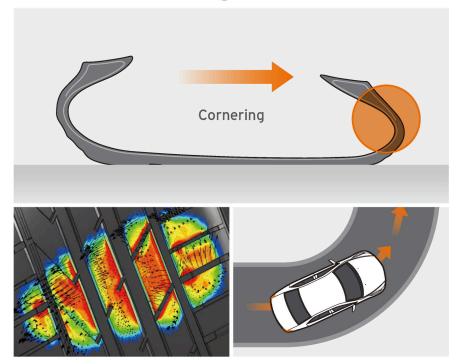
Even loads transfer vertically and laterally, they maintain a stable foot shape through an optimal design based on multiple tread radius profile and equilibrium carcass line.

→ Providing the best handling performance.

Traction force at driving



Traction force at cornering

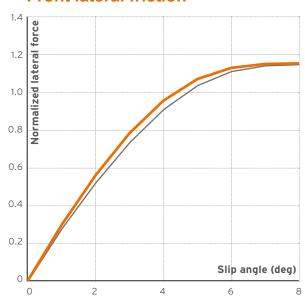




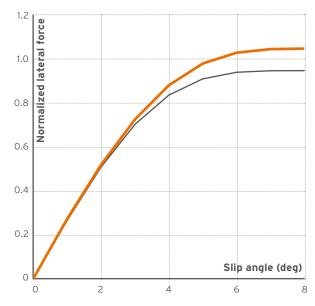
Dry and wet performance (handling)

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. → Maximum grip improved.

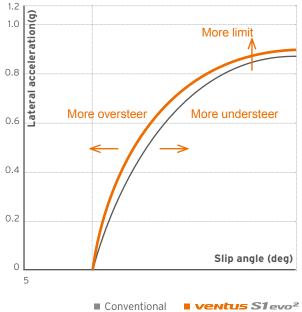
Front lateral friction



Rear lateral friction



Understeer and oversteer tendency





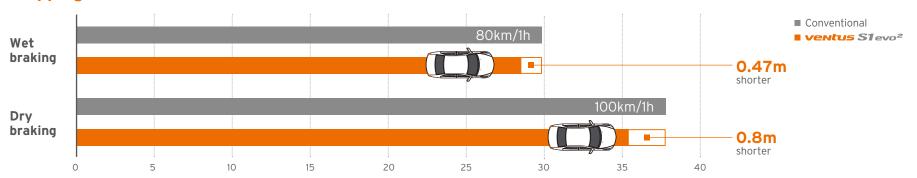




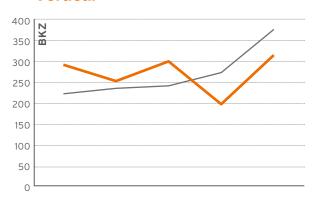
Dry and wet performance (braking)

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

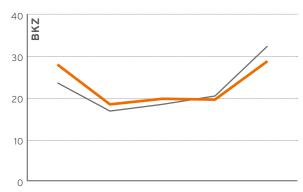
Stopping distance







Longitudinal



Lateral







