ventus S1 noble 2

The ideal balance of all-season and ultra-high performance

The Ideal Balance of Ultra-High Performance All-Season

- Product Name : VENTUS S1 noble²
- Speed Symbol : W
- Series : 40~55 Series
- Inch : 16~18
- UTQG : 500, AA, A


ventus S1 noble 2
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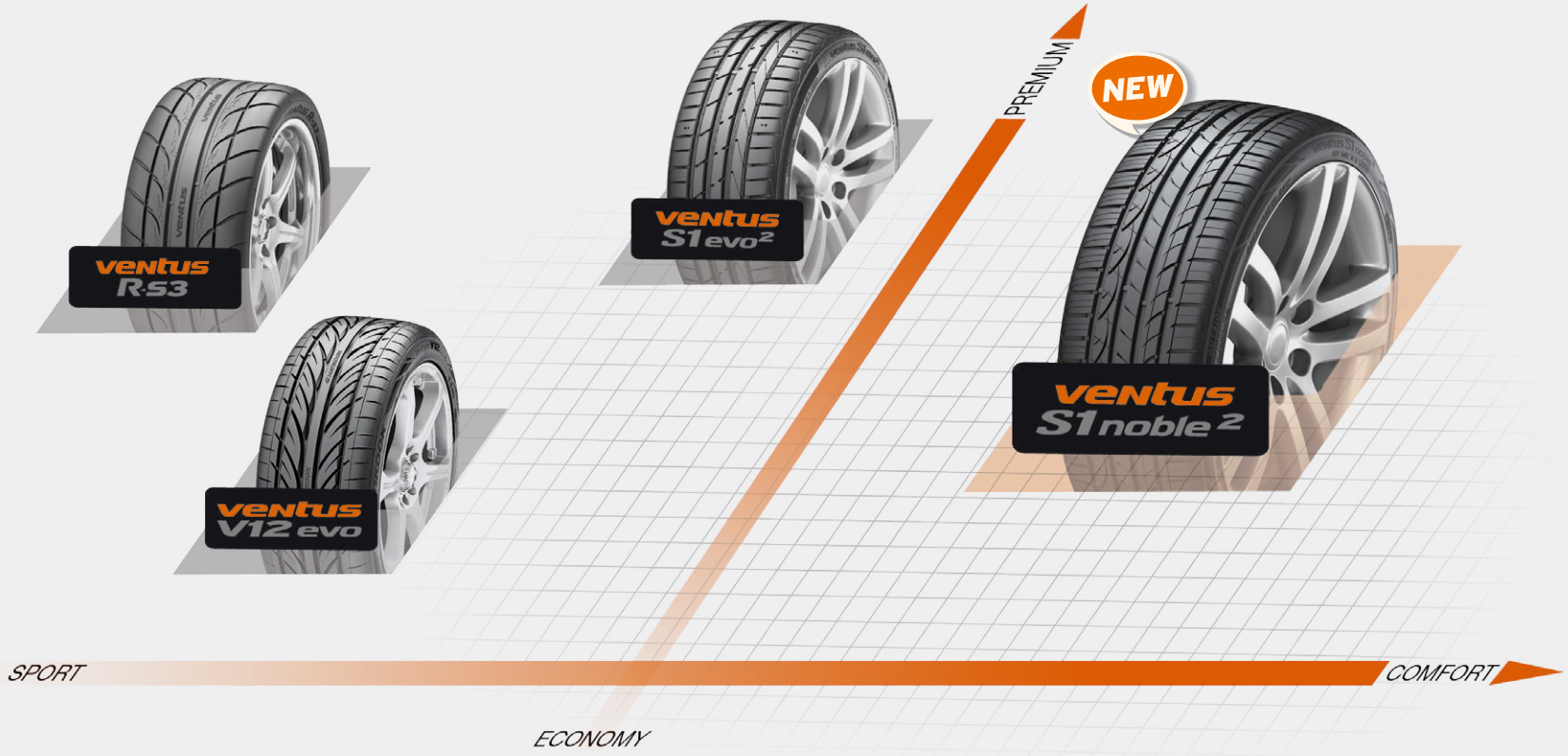
Position Map



Advanced Asymmetric Pattern Concept

Positive Aqua Hydro Block

An advanced Aqua Hydro Block design was developed through 3D Hydroplaning simulation to provide highly efficient wet braking

Cornering & Noise Reduction Rib

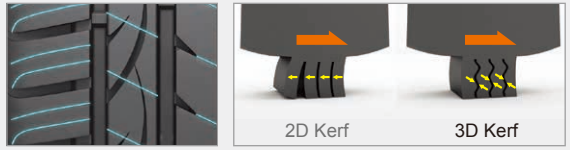
A straight Rib Block applied to the outside of the tyre helps to prevent road noise and increase cornering grip.

Refined Dynamic Shape Tread Pattern

4 Channel Rib Type Design

3D Kerf

Advanced 3D kerfs have been applied to the tyre to reinforce traction and prevent wear without hampering wet and dry handling performance.



Application of Tie-Bar Technologies

Ensures optimal Block Stiffness

Capillary Kerf

Maximises wet grip by evacuating water through slanted kerf linked to the tyre's main grooves.

Carving Edge

The sharp edges of the lateral grooves maximise performance.

Structure Design Technology

New Compound
New Silica Tread Compound for improved Wet Grip and lower Rolling Resistance

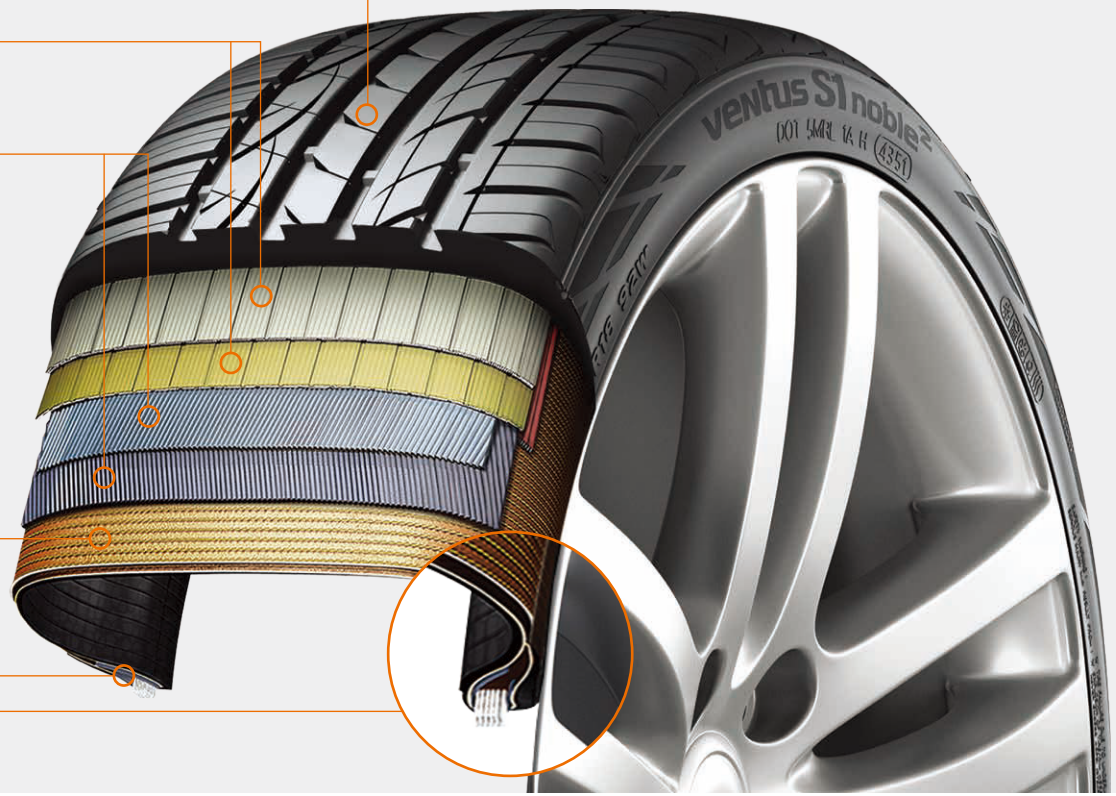
2 Layer Jointless Nylon Full Cover
Enhanced durability and tread stiffness

Wide 2 Steel Belt
Ensures optimal tread stiffness for improved handling performance

Equilibrium Carcass Line Design
Minimises tyre deformation and allows greater sidewall stiffness

Adoption of High-Hardness Bead Filler
Improved handling and steering response

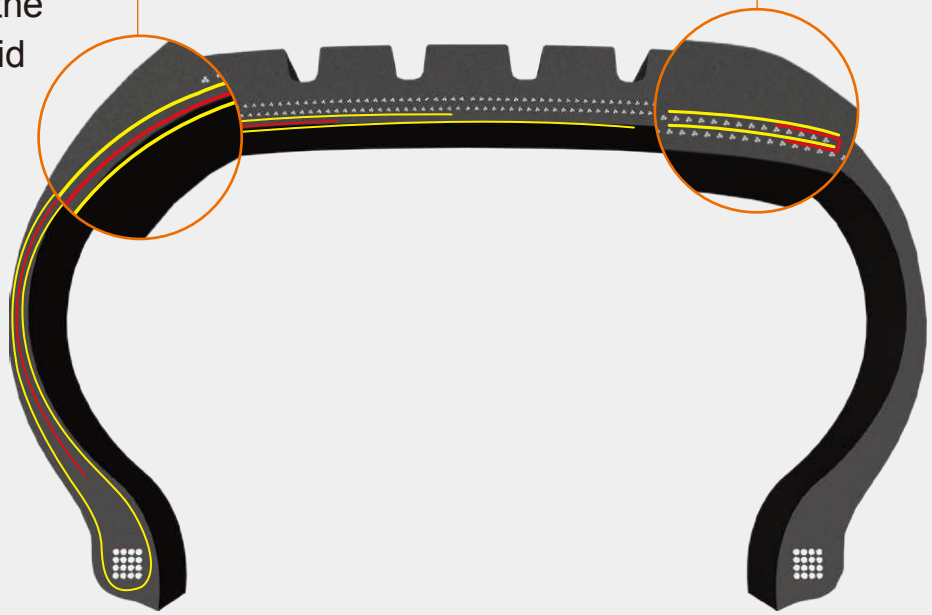
Strong Single Strand Bead Wire
Improved bead uniformity and durability



New Structure Technology

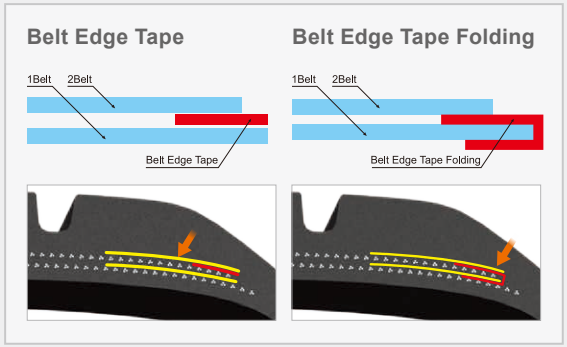
SFT (Side Filling Tape)

Side Filling Tape has been used in the design of the Ventus S1 Noble^2 to aid durability.



Belt Edge Tape

A rubber sheet, incorporated between 1st and 2nd belts help to prevent separation in the tyre's belt edge and increase durability.

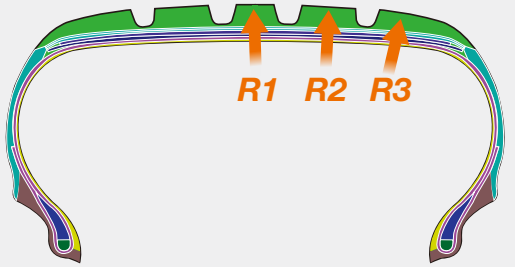


Profile

Profile Technology

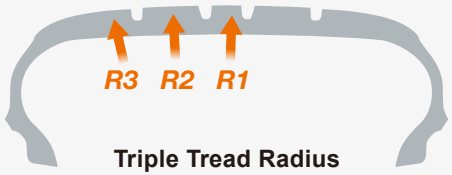
3R System (Multi Tread Radius Technology)

The Ventus S1 Noble² features a triple-radius profile that maintains maximum grip under Ultra-High Performance driving conditions.

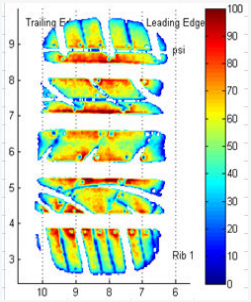


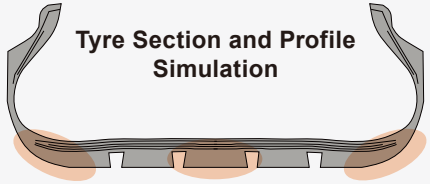
SCCT Layout

Stiffness Control Contour Theory helps to prevent belt and bead deformation for improved durability and deformation resistance.

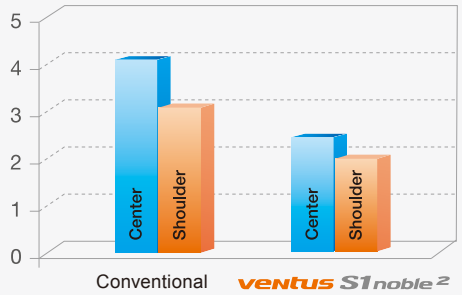


Triple Tread Radius





Tyre Section and Profile Simulation

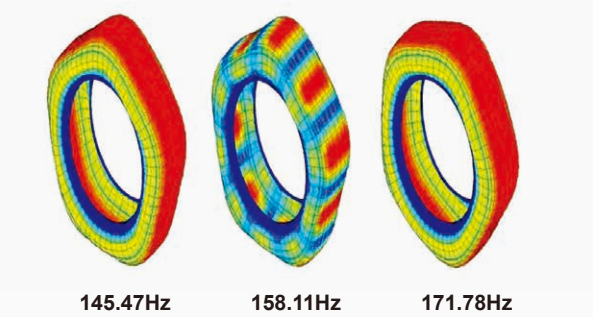


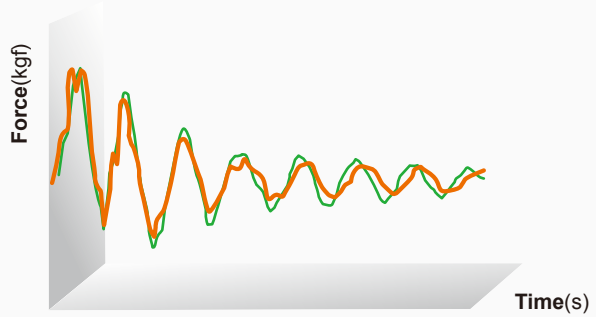
- Maintenance of tyre shape and ground pressure distribution
- Minimisation of tread deformation at high speeds

3D Vibration Analysis technology

3D Vibration Analysis technology

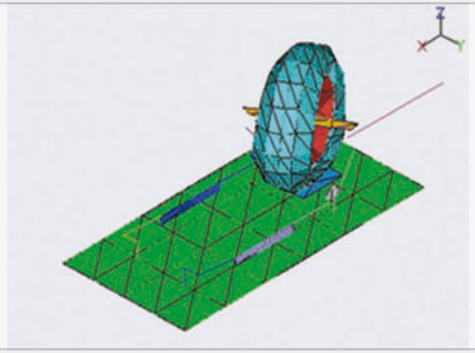
The advanced mold profile designed for the Ventus S1 Noble^2 delivers uniform contact pressure on the centre and shoulder blocks for secure braking performance, while straight rib blocks applied to the outside of the tyre reduce road noise.

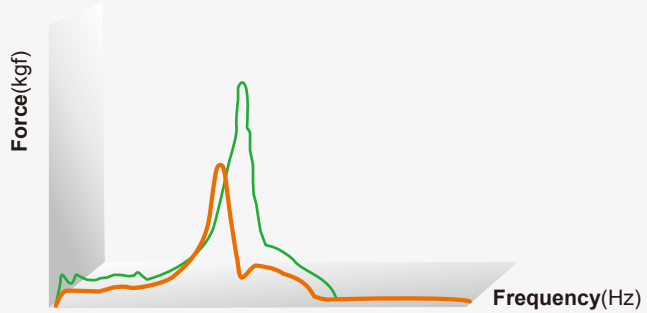




ventus S1 noble 2
Conventional

The ventus S1 noble 2 offers excellent vibration control





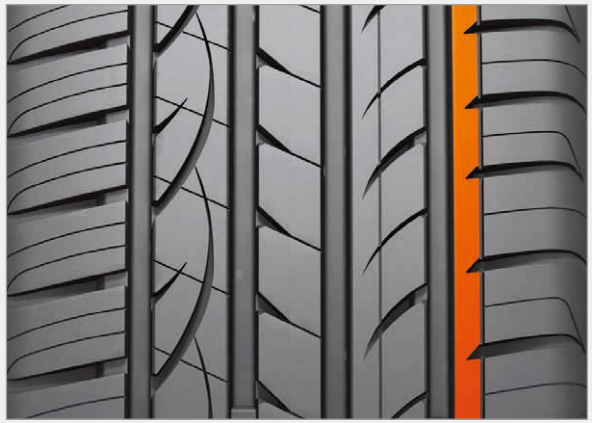
ventus S1 noble 2
Conventional

The ventus S1 noble 2 provides a comfortable, smooth ride

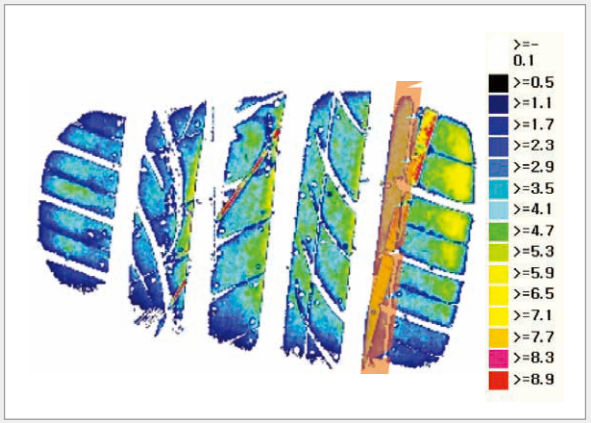
Semi-Rib Design

Semi-Rib Design

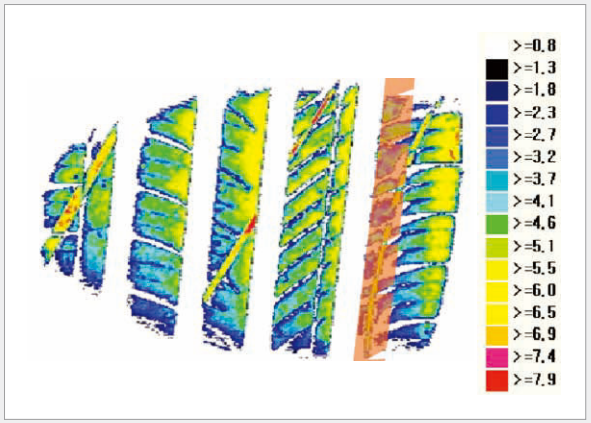
The outer block Semi-Rib design used by the Ventus S1 Noble^2 provides greater stability and handling performance.



ventus S1 noble 2



Conventional

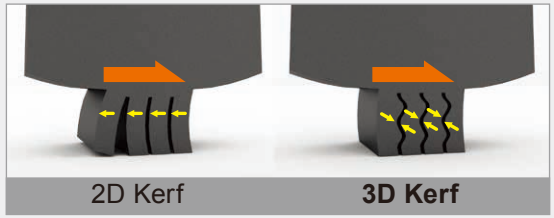


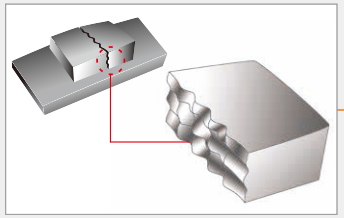
Large Contact Patch → Greater Stability

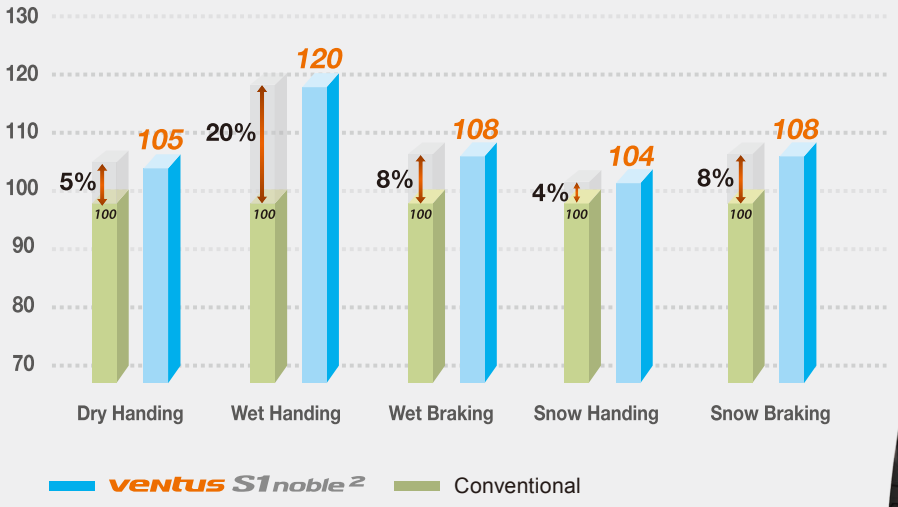
3D kerf

Application of 3D Kerf

Handling performance is improved through the use of 3D Kerf which maintain a stable shape during acceleration, braking and cornering.



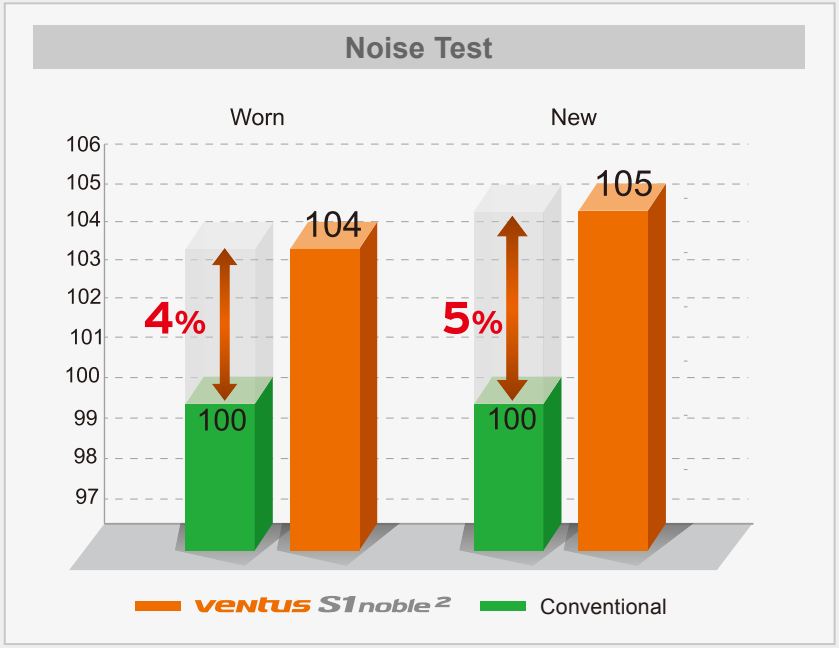




Noise

Pitch Design Technology

The use of a 5-Pitch tread block design offers optimal noise dispersion for a quiet, comfortable ride.

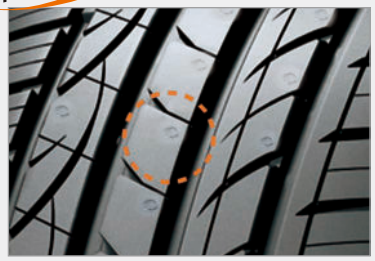


MSV (Micro Spring Vent) Technology

MSV (Micro Spring Vent) Technology

A ventless mold technology is used to produce the Ventus S1 Noble^2 resulting in a more attractive finished product with fewer imperfections.

Patent application



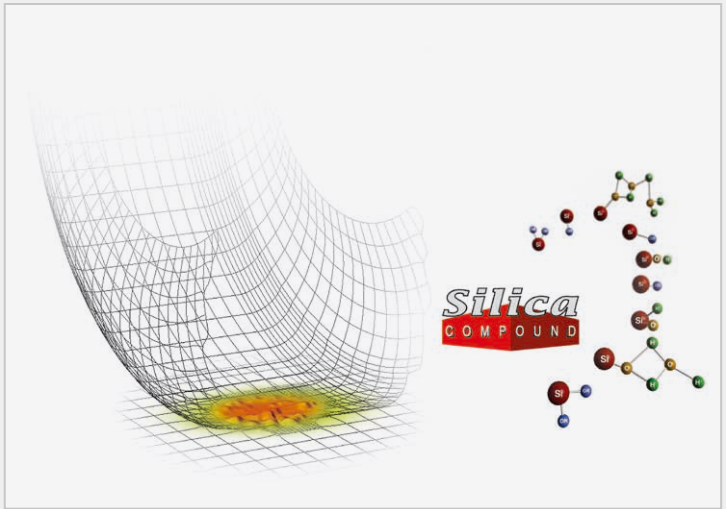
ventus S1 noble 2 (MSV Type)

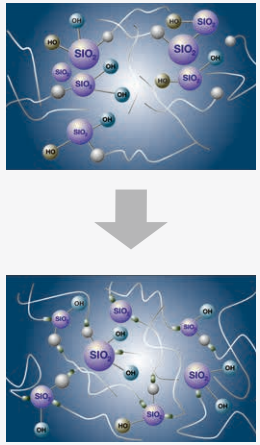
Conventional

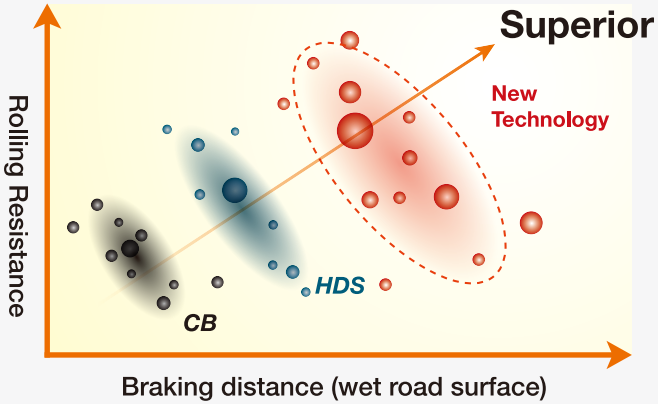
Compound

The Ventus S1 Noble² provides enhanced wet condition braking and handling compared to existing products through the use of hybrid compound technology silica.

- Maximised bond strength between silica and rubber through the adoption of hybrid polymer technology.
- An advanced “Fuzzy Mixing” process disperses silica into the tread rubber in nano-sized particles offering uniform compound characteristics.



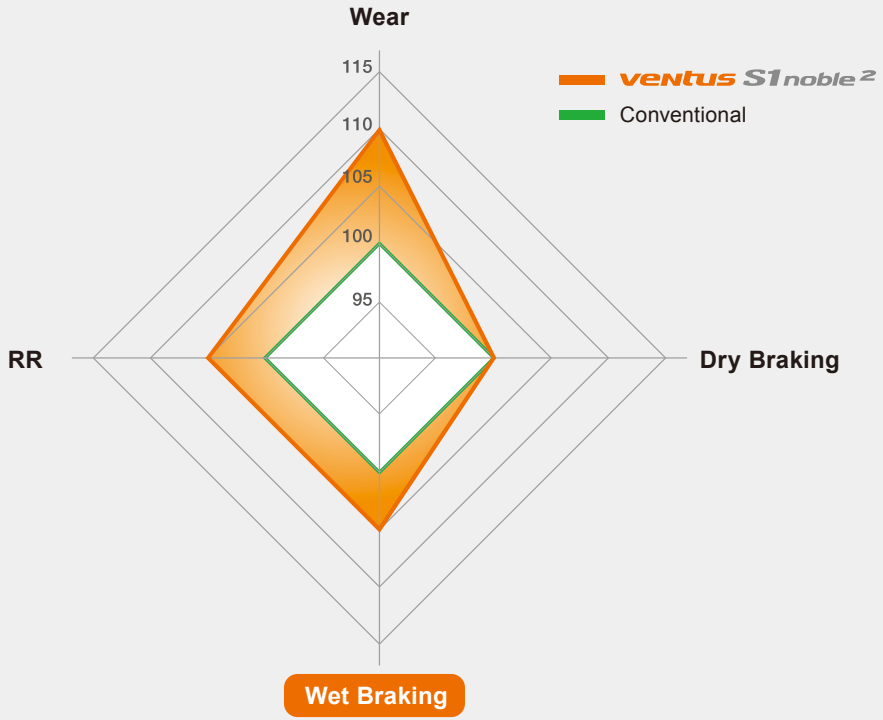




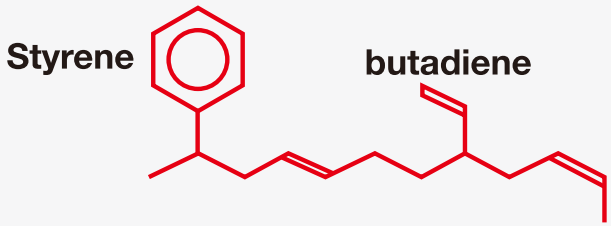
Compound Technology

Compound Technology

By applying high styrene polyner featuring high hysteresis, wet braking preformance is improved.



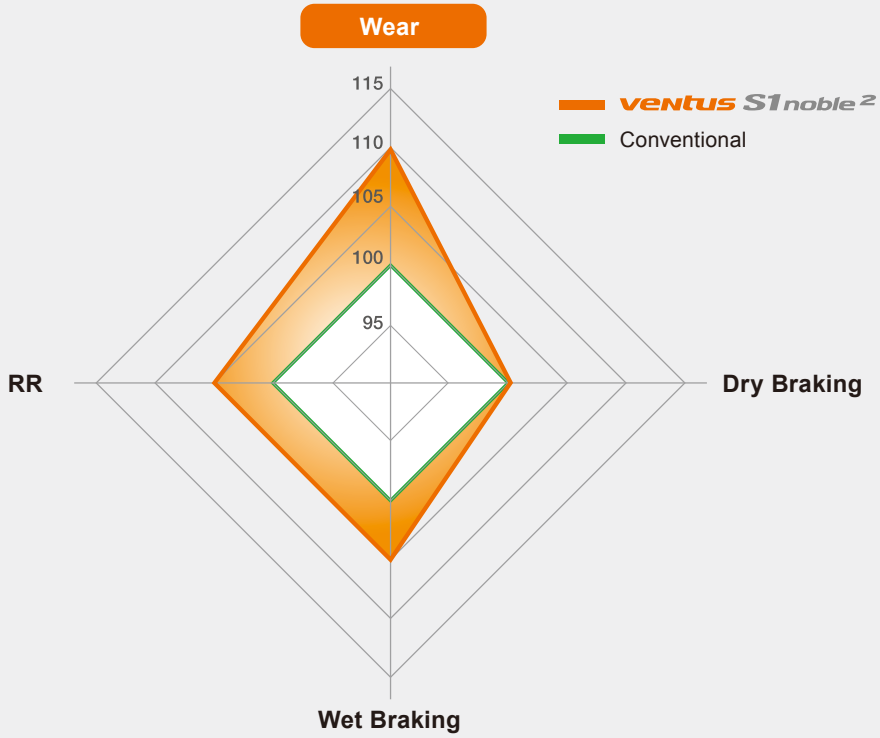
High Styrene (Bulky)
High Hysteresis
High Wet Braking Performance

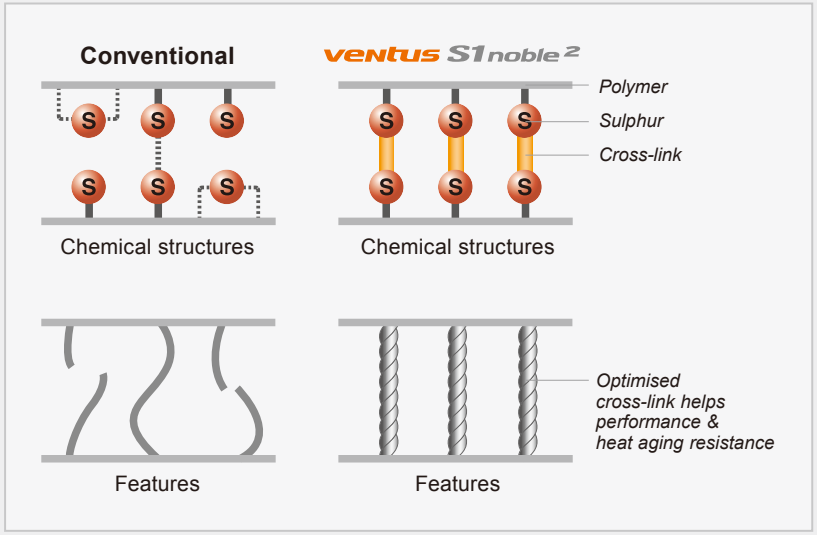


Compound Technology

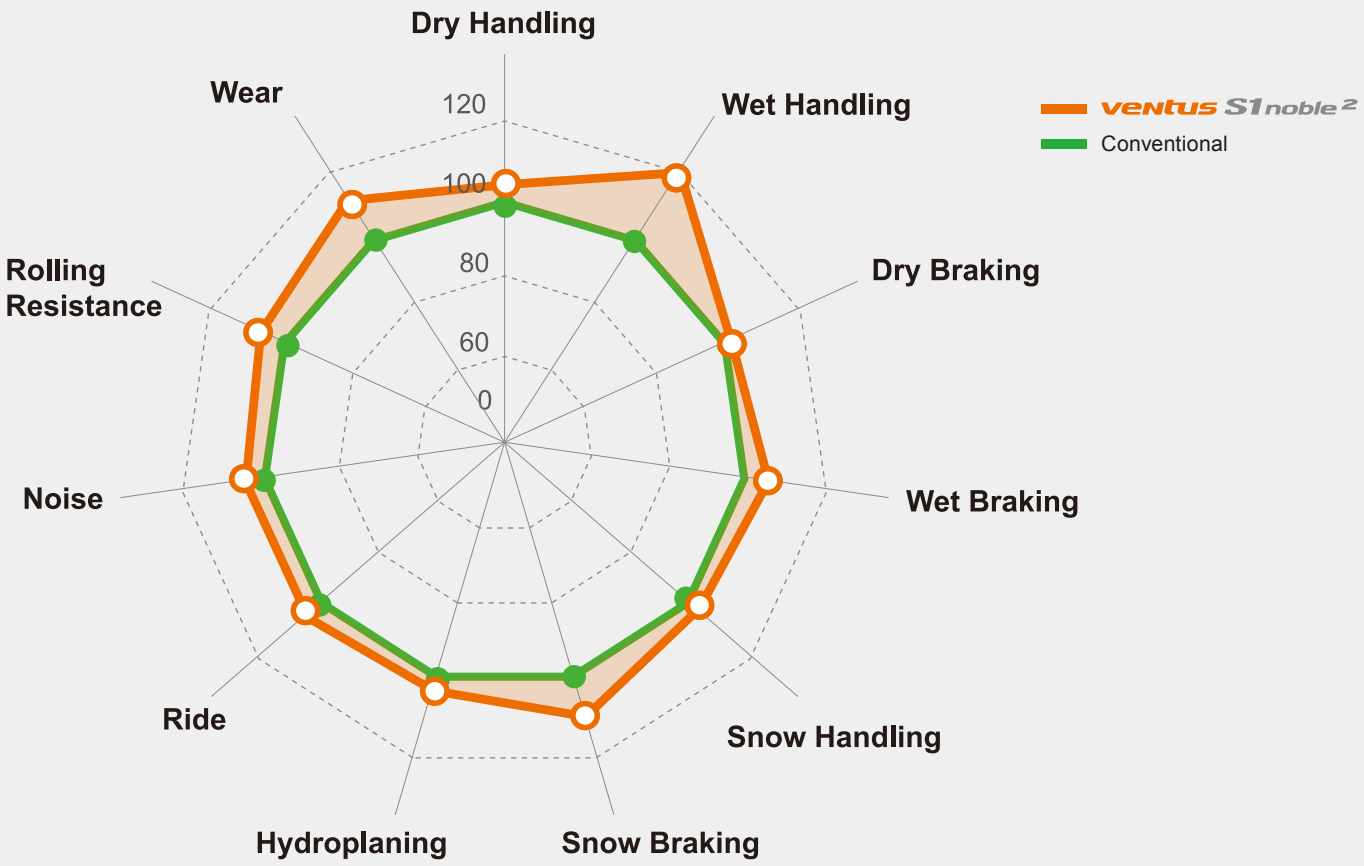
Compound Technology

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





Application of Technologies for Improvement of All-Season Performance

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driving emotion