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 **Hankook**
driving emotion



ventus V12 evo²

Ultra-High Performance Summer



A white luxury sedan is shown from a low-angle, rear-quarter perspective, driving on a road that stretches towards a sunset over a lake. The sky is filled with soft, wispy clouds, and the sun is low on the horizon, creating a warm glow. The car's sleek lines and multi-spoke alloy wheels are prominent. The overall mood is serene and sophisticated.

Contents

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Design Concept

Outstanding Ultra-High Performance Ability

The Ventus V12 evo2 is designed for drivers who like to express their own personality and style while experiencing outstanding traction and handling performance.

The sophisticated sidewall design of the Ventus V12 evo2, along with its advanced tread pattern design, offers drivers of sports cars, coupes and sedans the fresh style they desire.



ventus V12 evo²

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Features & Benefits

ventus V12 evo²

- Inspiring high speed stability
- Improved braking performance in Wet and Dry conditions
- Unique 'Aqua Jet' tread pattern design helps to reduce hydroplaning
- Enhanced eco-performance while offering impressive wear-resistance
- UTQG 320/AA/A



ventus V12 evo²

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Pattern Design



ventus V12 evo²

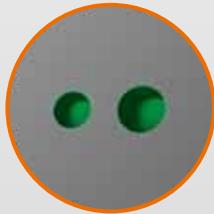
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Design feature

Impressive performance through advanced technology

Alignment indicator

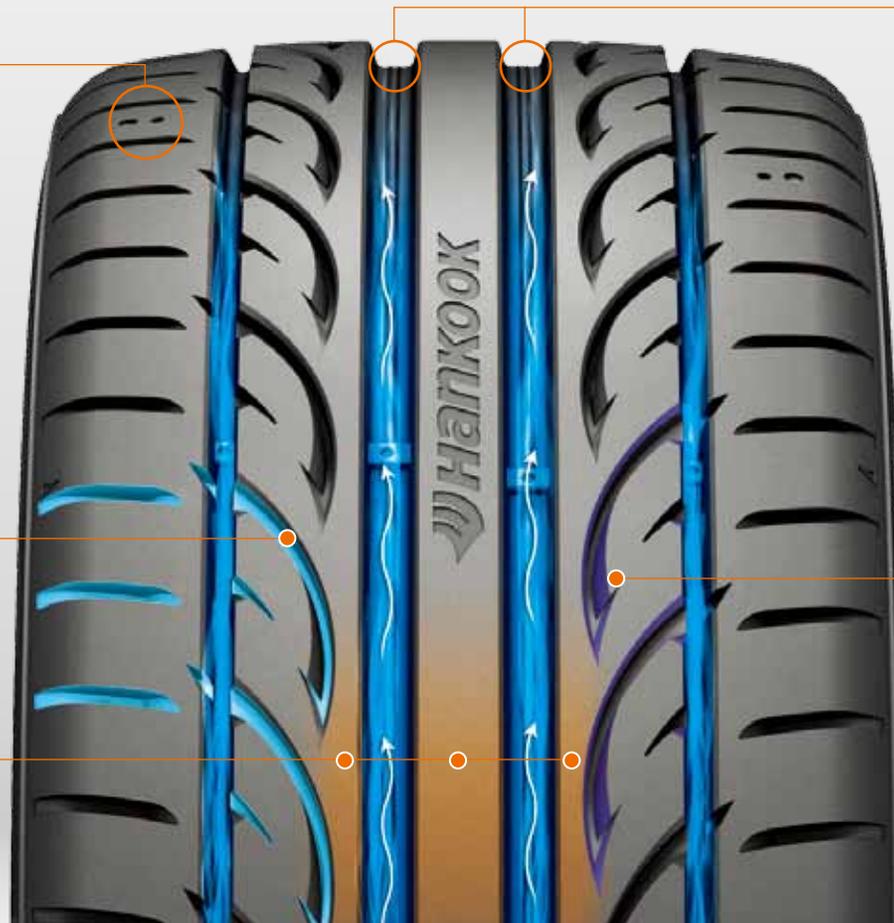
Drivers can check the status of vehicle alignment/tire wear via indicators designed into the tire's tread



Aqua jet

Provides efficient water evacuation from the center of the tire's contact patch for improved wet condition performance

Excellent dry handling



Cooling system

Improves the dispersion of heat generated during use and helps to evacuate water from the tire's contact patch

Stealth technology

Unique wing tip design reduces noise

Tread pattern design

3D tread pattern blocks are incorporated to maintain block stiffness and provide even wear

Design Feature - VAI Siping System (Visual Alignment Indicator)

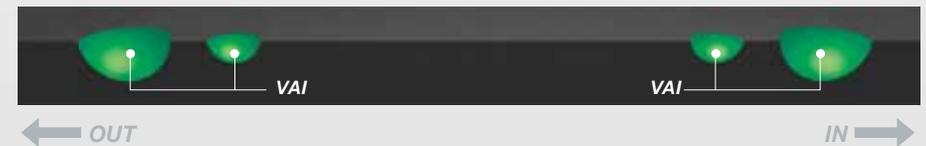
VAI Siping System

VAI Siping System

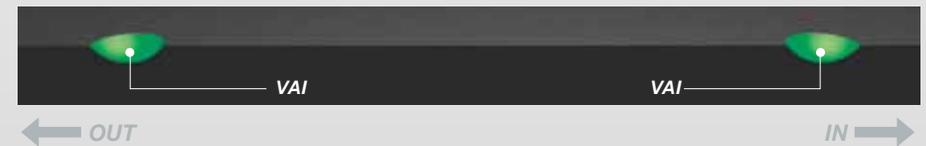
The Visual Alignment Indicator siping system offers drivers an easy way to check tire alignment by comparing tire wear on both the inside and outside of the tire's contact patch.



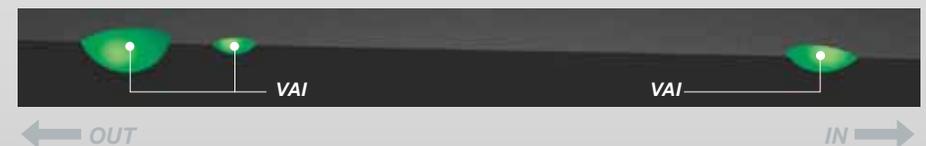
Before use



After use (regular wear)



After use (irregular wear)



Design feature - cooling system

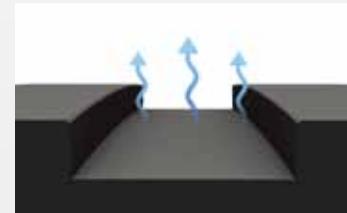
Cooling system / drainage groove

Cooling system

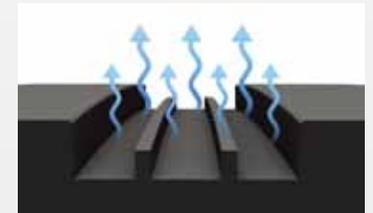
Improves the dispersion of heat generated during use and helps to evacuate water from the tire's contact patch



Cooling system



Conventional

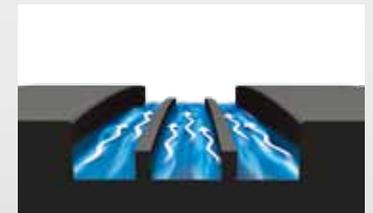


ventus V12 evo²

Drainage groove



Conventional



ventus V12 evo²

Design Feature - aqua jet

Aqua jet

Aqua jet

Provides efficient water evacuation from the center of the tire's contact patch for improved wet condition performance.



Action of aqua jet design



Design feature - stealth technology

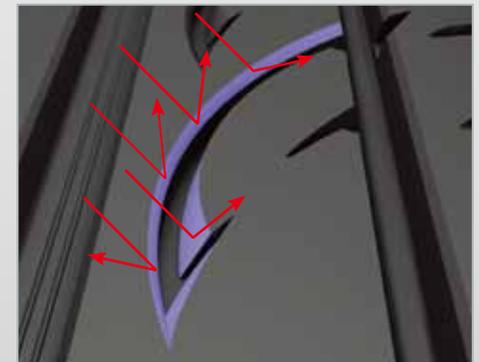
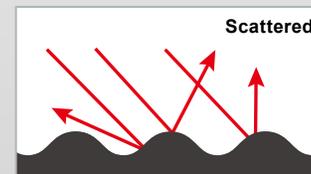
Stealth technology

Stealth Technology

Unique wing tip design reduces noise by incorporating beveled tread block edges to lower unwanted surface impact sound.



Beveled edge scatters incoming noise.



Design feature - aero dynamic sidewall

Aero-dynamic sidewall

Aero-dynamic sidewall

An aero-dynamic design, which incorporates rectangular dimples in the tire's sidewall, helps to minimize noise and vibration by reducing airflow turbulence while driving.



Aero-sidewall dimple

- Sporty, dynamic graphics.
- Carved letters help to prevent sidewall cracking.
- Advanced rectangular dimples offer unique style and help to minimize noise and vibration levels by reducing air turbulence while driving.

Air turbulence



Tire structure

High grip silica compound

Provides improved dry & wet traction along with lower rolling resistance for improved vehicle fuel economy.

Jointless full cover

Improved durability and braking performance.

Wide steel belt layer

Improved steering stability and handling.

High density polyester carcass

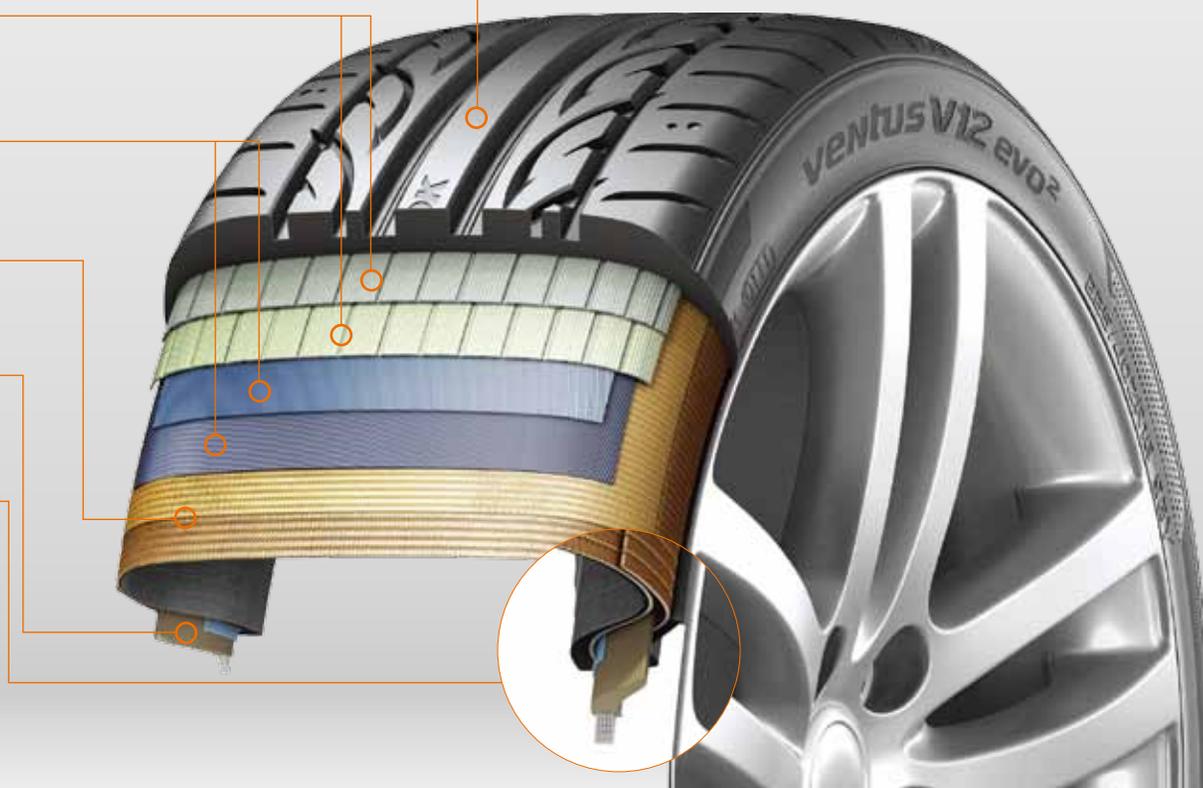
Enhanced sidewall strength.

High stiffness bead filler

Improved handling response.

Strong single strand bead wire

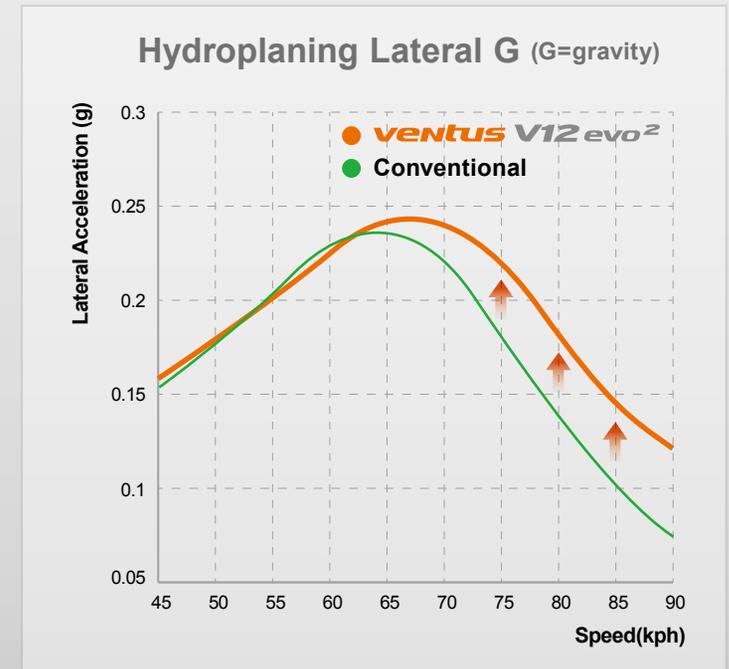
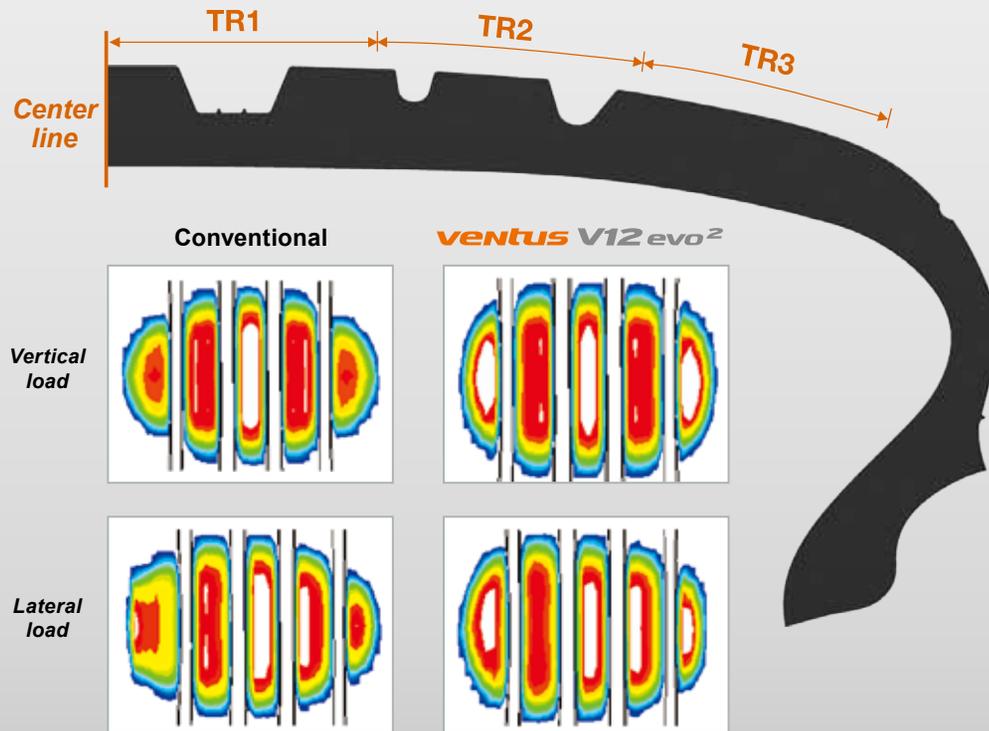
Enhanced uniformity and wheel fitment.



New profile for hydroplaning resistance

MOTORSPORT RACING *Technology*

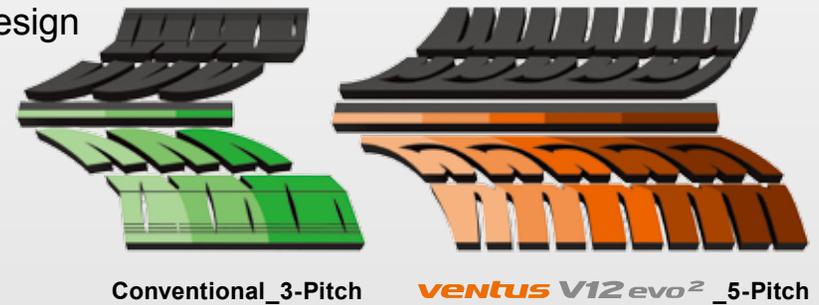
Optimized triple tread radius system based on motorsports racing tire profile technology ensures ideal performance during high-speed driving conditions.



Increased contact area - Excellent handling performance
Improved shoulder roundness - Improved hydroplaning performance

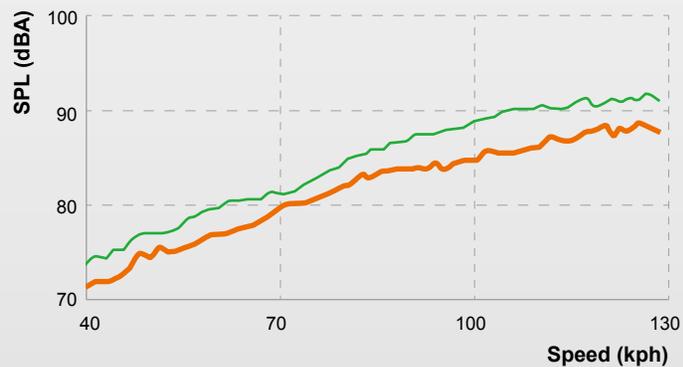
Noise

Road noise is reduced by the use of a 5-pitch tread block design and optimized middle block pitch array.



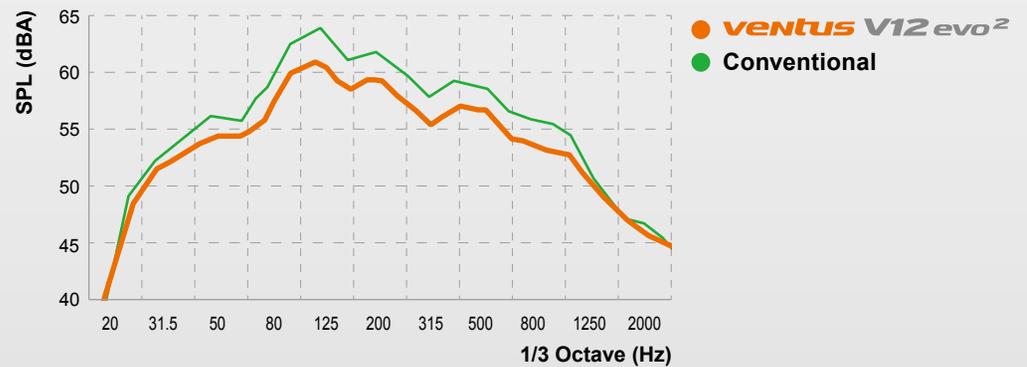
Assessment result

Result of single unit indoor noise assessment



→ **Front wheel condition** – single tire unit assessment. The Ventus V12 evo2 displays outstanding noise performance.

Result of single field unit noise assessment



→ **On field condition** – worn tire unit assessment. The Ventus V12 evo2 displays outstanding noise performance.

Compound technology

By applying a new functionalized styrene polymer in the tread compound of the Ventus v12 evo2 lower rolling resistance was achieved leading to improved vehicle fuel economy.

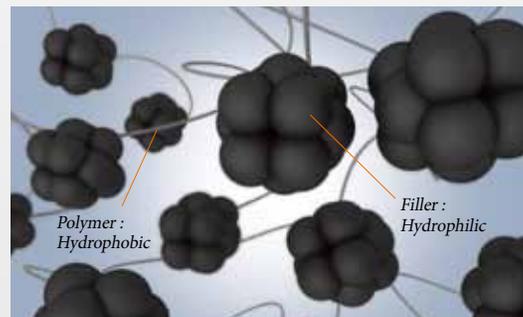
Polymer
Functionalisation

Polymer & Filler
Chemical combination

Filler
Improved dispersibility

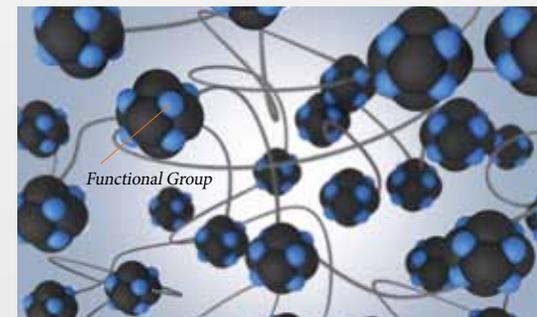
**Improved tire rolling
resistance performance**

Non-functionalised styrene polymer



Conventional

Functionalised styrene polymer



ventus V12 evo²

ventus V12 evo²

- Improved interaction between polymer and filler
- Optimized dispersion of filler
- Minimized energy loss

Dry and wet performance (handling)

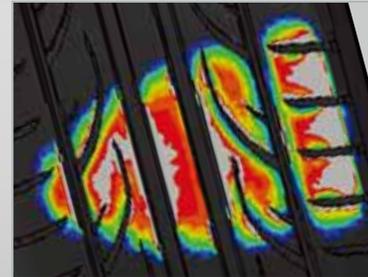
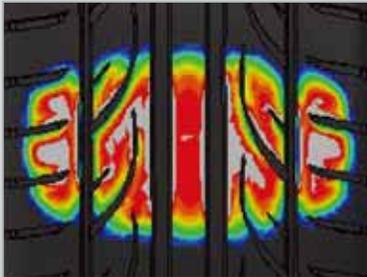
During the initial stage of tire development, computer mapping and forecasting of tire deformation allows engineers to design a carcass profile that maintains optimum shape according to the tire's contact patch. These efforts ensure a more stable and consistent tire structure, enhancing the performance and durability of the tire over a wide range of conditions. It is this attention to design that allows Hankook to develop quality, durable tires that do not compromise on performance.



Traction force at **driving**

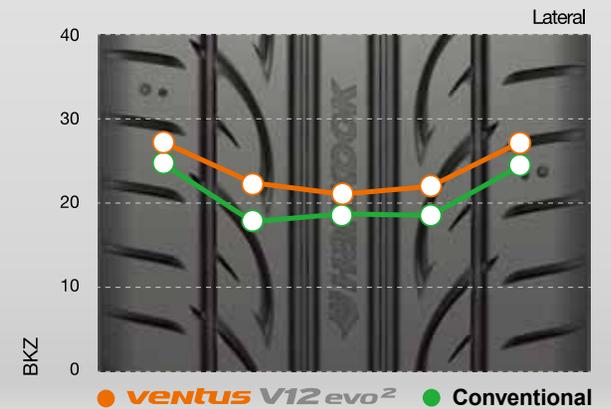
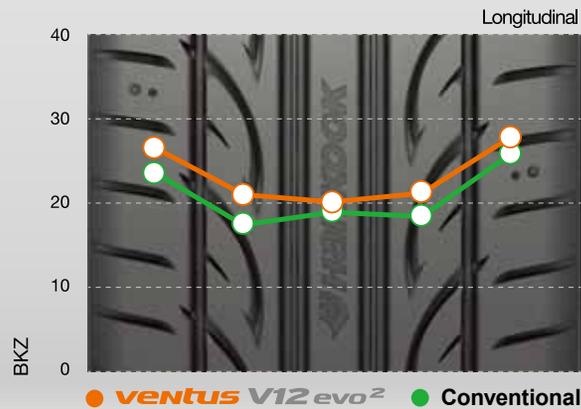
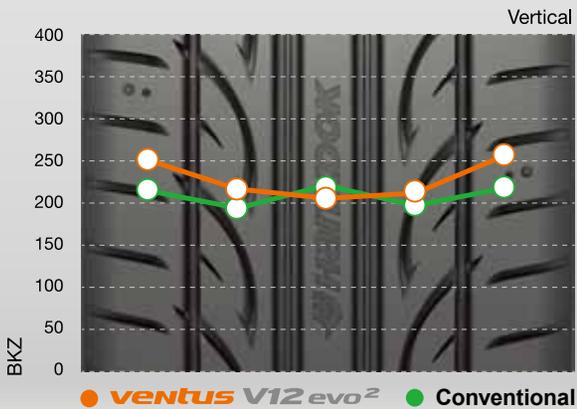
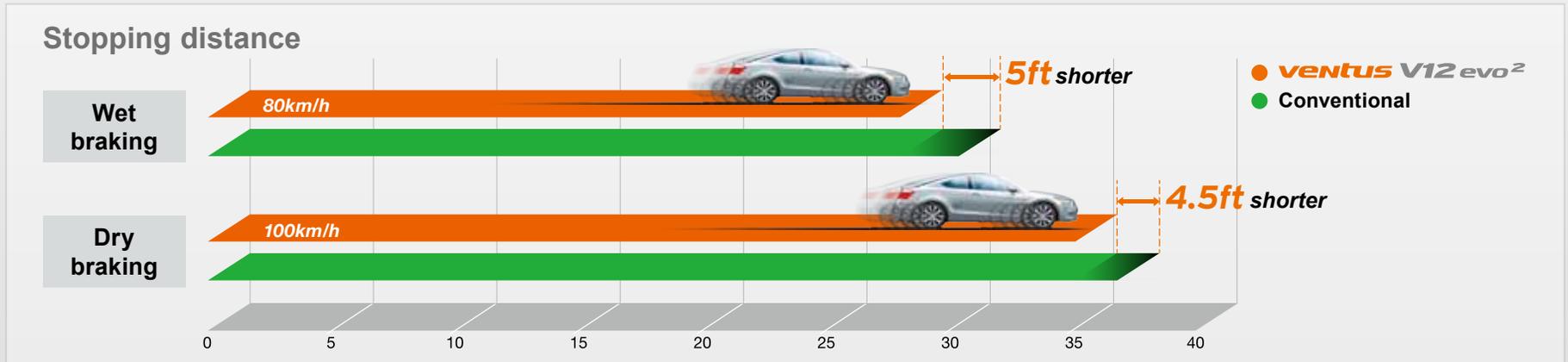


Traction force at **cornering**



Dry and wet performance (braking)

Optimized tread block stiffness balance allows the Ventus V12 evo2 to offer impressive wet and dry braking performance.



*Test Data: The Ventus V12 evo2 provided wet braking distances of 5 feet shorter and dry braking distances of 4.5 feet shorter versus Ventus V12 evo in internal testing.

Test results

Performance



Available sizes

| S-Code | Size | L / I & SS | Measuring Rim | Rim Width Range | Max. Load | | Overall Diameter | Section Width | Tread Width | Tread Depth | Revs/ Mile |
|---------|---------------|------------|---------------|-----------------|-----------|-------|------------------|---------------|-------------|-------------|------------|
| | | | | | Air | Load | | | | | |
| 1015379 | 205/55ZR16 XL | 94W | 6.5 | 5.5-7.5 | 50 | 1,477 | 24.9 | 8.3 | 6.5 | 10.0 | 811 |
| 1015239 | 245/40ZR17 XL | 95Y | 8.5 | 8.0-9.5 | 50 | 1,521 | 24.7 | 9.7 | 8.4 | 10.0 | 816 |
| 1015413 | 255/40ZR17 XL | 98Y | 9.0 | 8.5-10.0 | 50 | 1,653 | 25.0 | 10.2 | 8.7 | 10.0 | 806 |
| 1015410 | 205/45ZR17 XL | 88W | 7.0 | 6.5-7.5 | 50 | 1,235 | 24.3 | 8.0 | 6.8 | 10.0 | 832 |
| 1015411 | 215/45ZR17 XL | 91Y | 7.0 | 7.0-8.0 | 50 | 1,356 | 24.6 | 8.3 | 7.4 | 10.0 | 819 |
| 1015412 | 225/45ZR17 XL | 94Y | 7.5 | 7.0-8.5 | 50 | 1,477 | 25.0 | 8.8 | 7.7 | 10.0 | 808 |
| 1015237 | 235/45ZR17 XL | 97Y | 8.0 | 7.5-9.0 | 50 | 1,609 | 25.4 | 9.2 | 8.0 | 10.0 | 796 |
| 1015240 | 245/45ZR17 XL | 99Y | 8.0 | 7.5-9.0 | 50 | 1,709 | 25.7 | 9.5 | 8.4 | 10.0 | 786 |
| 1015234 | 205/50ZR17 XL | 93Y | 6.5 | 5.5-7.5 | 50 | 1,433 | 25.1 | 8.3 | 6.8 | 10.0 | 803 |
| 1015690 | 215/50ZR17 XL | 95W | 7.0 | 6.0-7.5 | 50 | 1,521 | 25.5 | 8.8 | 6.7 | 10.0 | 791 |
| 1015689 | 225/50ZR17 XL | 98Y | 7.0 | 6.0-8.0 | 50 | 1,653 | 25.9 | 9.1 | 7.5 | 10.0 | 779 |
| 1015248 | 245/35ZR18 XL | 92Y | 8.5 | 8.0-9.5 | 50 | 1,389 | 24.8 | 9.7 | 8.4 | 10.0 | 815 |
| 1015251 | 255/35ZR18 XL | 94Y | 9.0 | 8.5-10.0 | 50 | 1,477 | 25.0 | 10.2 | 8.7 | 10.0 | 807 |
| 1015417 | 265/35ZR18 XL | 97Y | 9.5 | 9.0-10.5 | 50 | 1,609 | 25.3 | 10.6 | 9.1 | 10.0 | 797 |
| 1015256 | 275/35ZR18 XL | 99Y | 9.5 | 9.0-11.0 | 50 | 1,709 | 25.6 | 10.9 | 9.4 | 10.0 | 790 |
| 1015258 | 285/35ZR18 XL | 101Y | 10.0 | 9.5-11.0 | 50 | 1,819 | 25.9 | 11.3 | 9.8 | 10.0 | 780 |
| 1015242 | 215/40ZR18 XL | 89Y | 7.5 | 7.0-8.5 | 50 | 1,279 | 24.8 | 8.5 | 7.4 | 10.0 | 815 |
| 1015414 | 225/40ZR18 XL | 92Y | 8.0 | 7.5-9.0 | 50 | 1,389 | 25.1 | 9.0 | 7.7 | 10.0 | 805 |
| 1015416 | 235/40ZR18 XL | 95Y | 8.5 | 8.0-9.5 | 50 | 1,521 | 25.4 | 9.4 | 8.0 | 10.0 | 795 |
| 1015418 | 245/40ZR18 XL | 97Y | 8.5 | 8.0-9.5 | 50 | 1,609 | 25.7 | 9.7 | 8.3 | 10.0 | 785 |
| 1015252 | 255/40ZR18 XL | 99Y | 9.0 | 8.5-10.0 | 50 | 1,709 | 26.0 | 10.2 | 8.7 | 10.0 | 775 |
| 1015255 | 265/40ZR18 XL | 101Y | 9.5 | 9.0-10.5 | 50 | 1,819 | 26.3 | 10.6 | 9.1 | 10.0 | 766 |
| 1015257 | 275/40ZR18 XL | 103Y | 9.5 | 9.0-11.0 | 50 | 1,929 | 26.7 | 10.9 | 9.4 | 10.0 | 757 |
| 1015243 | 215/45ZR18 XL | 93Y | 7.0 | 7.0-8.0 | 50 | 1,433 | 25.6 | 8.3 | 7.4 | 10.0 | 787 |
| 1015415 | 225/45ZR18 XL | 95Y | 7.5 | 7.0-8.5 | 50 | 1,521 | 25.9 | 8.8 | 7.7 | 10.0 | 778 |
| 1015250 | 245/45ZR18 XL | 100Y | 8.0 | 7.5-9.0 | 50 | 1,764 | 26.7 | 9.5 | 8.4 | 10.0 | 757 |
| 1015253 | 255/45ZR18 XL | 103Y | 8.5 | 8.0-9.5 | 50 | 1,929 | 27.0 | 10.0 | 8.7 | 10.0 | 746 |
| 1015247 | 235/50ZR18 XL | 101Y | 7.5 | 6.5-8.5 | 50 | 1,819 | 27.3 | 9.6 | 7.8 | 10.0 | 740 |
| 1015288 | 255/30ZR19 XL | 91Y | 9.0 | 8.5-9.5 | 50 | 1,356 | 25.1 | 10.2 | 9.0 | 10.0 | 805 |
| 1015292 | 265/30ZR19 XL | 93Y | 9.5 | 9.0-10.0 | 50 | 1,433 | 25.3 | 10.6 | 9.4 | 10.0 | 797 |
| 1015294 | 275/30ZR19 XL | 96Y | 9.5 | 9.0-10.0 | 50 | 1,565 | 25.6 | 10.9 | 9.8 | 10.0 | 790 |
| 1015297 | 285/30ZR19 XL | 98Y | 10.0 | 9.5-10.5 | 50 | 1,653 | 25.8 | 11.3 | 10.1 | 10.0 | 782 |
| 1015299 | 295/30ZR19 XL | 100Y | 10.5 | 10.0-11.0 | 50 | 1,764 | 26.0 | 11.8 | 10.5 | 10.0 | 775 |

Available sizes

| S-Code | Size | L / I & SS | Measuring Rim | Rim Width Range | Max. Load | | Overall Diameter | Section Width | Tread Width | Tread Depth | Revs/ Mile |
|---------|---------------|------------|---------------|-----------------|-----------|-------|------------------|---------------|-------------|-------------|------------|
| | | | | | Air | Load | | | | | |
| 1015300 | 305/30ZR19 XL | 102Y | 11.0 | 10.5-11.5 | 50 | 1,874 | 26.3 | 12.2 | 10.8 | 10.0 | 768 |
| 1015301 | 325/30ZR19 XL | 105Y | 11.5 | 11.0-12.0 | 50 | 2,039 | 26.7 | 13.0 | 11.5 | 10.0 | 755 |
| 1015281 | 225/35ZR19 XL | 88Y | 8.0 | 7.5-9.0 | 50 | 1,235 | 25.2 | 9.0 | 7.7 | 10.0 | 800 |
| 1015419 | 235/35ZR19 XL | 91Y | 8.5 | 8.0-9.5 | 50 | 1,356 | 25.5 | 9.4 | 8.0 | 10.0 | 792 |
| 1015285 | 245/35ZR19 XL | 93Y | 8.5 | 8.0-9.5 | 50 | 1,433 | 25.4 | 9.7 | 8.3 | 10.0 | 796 |
| 1015420 | 255/35ZR19 XL | 96Y | 9.0 | 8.5-10.0 | 50 | 1,565 | 26.0 | 10.2 | 8.7 | 10.0 | 775 |
| 1015293 | 265/35ZR19 XL | 98Y | 9.5 | 9.0-10.5 | 50 | 1,653 | 26.3 | 10.6 | 9.1 | 10.0 | 766 |
| 1015295 | 275/35ZR19 XL | 100Y | 9.5 | 9.0-11.0 | 50 | 1,764 | 26.6 | 10.9 | 9.4 | 10.0 | 759 |
| 1015298 | 285/35ZR19 XL | 103Y | 10.0 | 9.5-11.0 | 50 | 1,929 | 26.9 | 11.3 | 9.8 | 10.0 | 750 |
| 1015282 | 225/40ZR19 XL | 93Y | 8.0 | 7.5-9.0 | 50 | 1,433 | 26.1 | 9.0 | 7.7 | 10.0 | 773 |
| 1015286 | 245/40ZR19 XL | 98Y | 8.5 | 8.0-9.5 | 50 | 1,653 | 26.7 | 9.7 | 8.4 | 10.0 | 755 |
| 1015290 | 255/40ZR19 XL | 100Y | 9.0 | 8.5-10.0 | 50 | 1,764 | 27.0 | 10.2 | 8.7 | 10.0 | 746 |
| 1015296 | 275/40ZR19 XL | 105Y | 9.5 | 9.0-11.0 | 50 | 2,039 | 27.7 | 10.9 | 9.4 | 10.0 | 729 |
| 1015283 | 225/45ZR19 XL | 96Y | 7.5 | 7.0-8.5 | 50 | 1,565 | 27.0 | 8.8 | 7.7 | 10.0 | 748 |
| 1015287 | 245/45ZR19 XL | 102Y | 8.0 | 7.5-9.0 | 50 | 1,874 | 27.7 | 9.5 | 8.3 | 10.0 | 729 |
| 1015291 | 255/45ZR19 XL | 104Y | 8.5 | 8.0-9.5 | 50 | 1,984 | 28.1 | 10.0 | 8.7 | 10.0 | 719 |
| 1015374 | 305/25ZR20 XL | 97Y | 11.0 | 10.5-11.5 | 50 | 1,609 | 26.0 | 12.2 | 10.8 | 10.0 | 777 |
| 1015364 | 245/30ZR20 XL | 90Y | 8.5 | 8.0-9.0 | 50 | 1,323 | 25.8 | 9.7 | 8.4 | 10.0 | 781 |
| 1015368 | 255/30ZR20 XL | 92Y | 9.0 | 8.5-9.5 | 50 | 1,389 | 26.1 | 10.2 | 9.0 | 10.0 | 774 |
| 1015371 | 275/30ZR20 XL | 97Y | 9.5 | 9.0-10.0 | 50 | 1,609 | 26.5 | 10.9 | 9.8 | 10.0 | 760 |
| 1015373 | 285/30ZR20 XL | 99Y | 10.0 | 9.5-10.5 | 50 | 1,709 | 26.8 | 11.3 | 10.1 | 10.0 | 754 |
| 1015365 | 245/35ZR20 XL | 95Y | 8.5 | 8.0-9.5 | 50 | 1,521 | 26.8 | 9.7 | 8.4 | 10.0 | 754 |
| 1015369 | 255/35ZR20 XL | 97Y | 9.0 | 8.5-10.0 | 50 | 1,609 | 27.0 | 10.2 | 8.7 | 10.0 | 747 |
| 1015372 | 275/35ZR20 XL | 102Y | 9.5 | 9.0-11.0 | 50 | 1,874 | 27.6 | 10.9 | 9.4 | 10.0 | 732 |
| 1015366 | 245/40ZR20 XL | 99Y | 8.5 | 8.0-9.5 | 50 | 1,709 | 27.7 | 9.7 | 8.4 | 10.0 | 728 |
| 1015367 | 245/45ZR20 XL | 103Y | 8.0 | 7.5-9.0 | 50 | 1,929 | 28.7 | 9.5 | 8.4 | 10.0 | 704 |
| 1015370 | 255/45ZR20 XL | 105Y | 8.5 | 8.0-9.5 | 50 | 2,039 | 29.1 | 10.0 | 8.7 | 10.0 | 694 |
| 1015758 | 275/30ZR21 XL | 98Y | 9.5 | 9.0-10.0 | 50 | 1,653 | 27.5 | 10.9 | 9.8 | 10.0 | 733 |
| 1015375 | 245/35ZR21 XL | 96Y | 8.5 | 8.0-9.5 | 50 | 1,565 | 27.8 | 9.7 | 8.4 | 10.0 | 727 |

Memo

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Air 'Em UP

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