



***ventus S1 AS***

*Experience the sheer joy of driving in any weather*



**Features and Performance Information**

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**Concept**

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**Key Benefits**

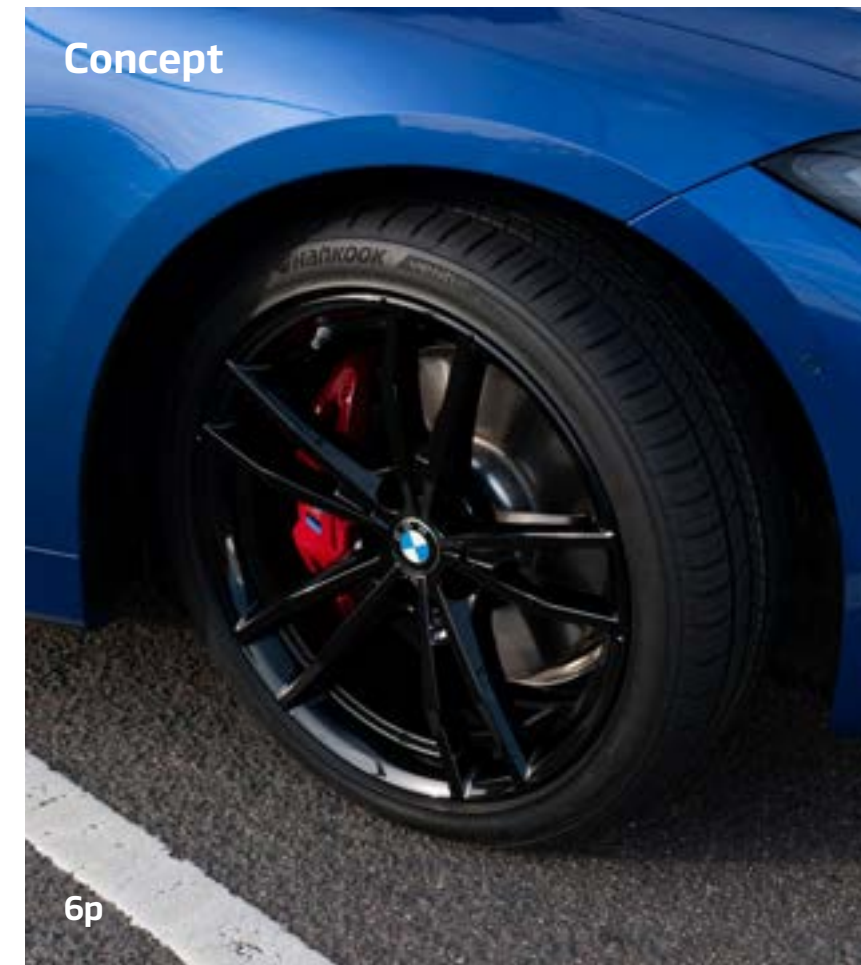
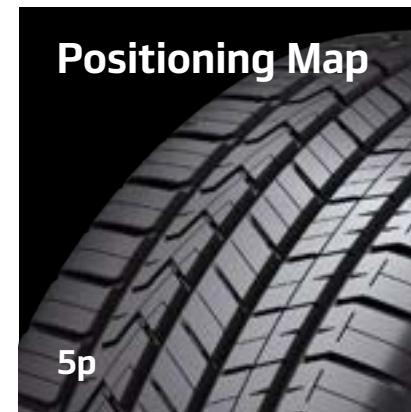
7p

**Technology**

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**Available Size**

16p



Features and Performance Information

# VENTUS S1 AS

## Technical Profile

Tread width

**205-315**

Series

**30-55**

Inch

**16~22**

Speed symbol

**W, Y**

UTQG

**Treadwear 560**

**Traction AA**

**Temperature A**

## Applied Technology & Tire Performance



Wet grip



Dry handling



Snow handling



Cornering



Safety



High concentration  
of silica compound





### *ventus V4 ES*

The first ULTRA HIGH PERFORMANCE ALL-SEASON Tire made by Hankook.



### *ventus S1 noble<sup>2</sup>*

#### Magazine Test

- Consumer report ('19)
- Recommendable (225/40ZR18W XL)

#### OE Application

- BMW 3 Series, BMW 4 Series (225/45R18H XL)
- Ford Mustang, Ford Edge, Lincoln MKX
- Chevrolet Equinox, VW Tiguan R-line, HMC Palisade, HMC i30, HMC Elantra, HMC Grandeur, KMC K7

NEW



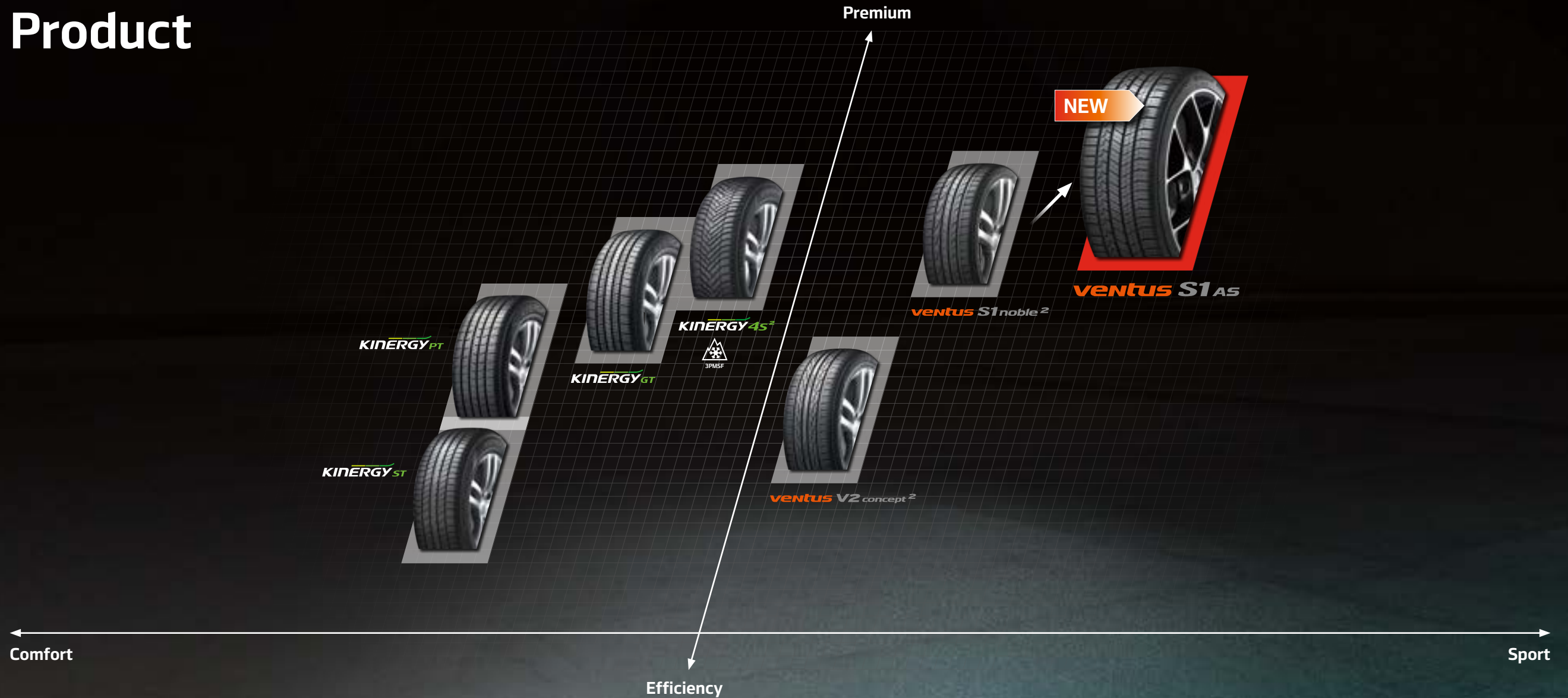
### *ventus S1 AS*

Good Results Expected

#### OE Application

- KMC K8
- Preparing for premium OE supply

# 2022 All-Season (All-Weather) Product



Concept

# ***SPORT DRIVING YEAR-ROUND***

Experience the sheer joy of driving in any weather

Key Benefits



**Outstanding  
Grip Control on  
Wet Roads**

**Ultimate Handling and  
Steering Technology**



**Stable Driving on  
Snowy Roads**

Technology

# Asymmetric Tread Pattern for All Conditions

Our asymmetric tread pattern provides safety in all kinds of weather. The optimized and even stiffness of the pattern block ensures quiet interior noise throughout the tire's entire lifetime.

## INSIDE

### Wet / Snow Road Conditions

A softened pattern design and stiffness of the inside enhances water evacuation and snow traction on the tire surface thereby reducing the risk of slipping on wet/snowy surfaces.



## OUTSIDE

### Dry Road Conditions

The rigid outer block is optimized to secure the steering grip performance required for dry cornering.







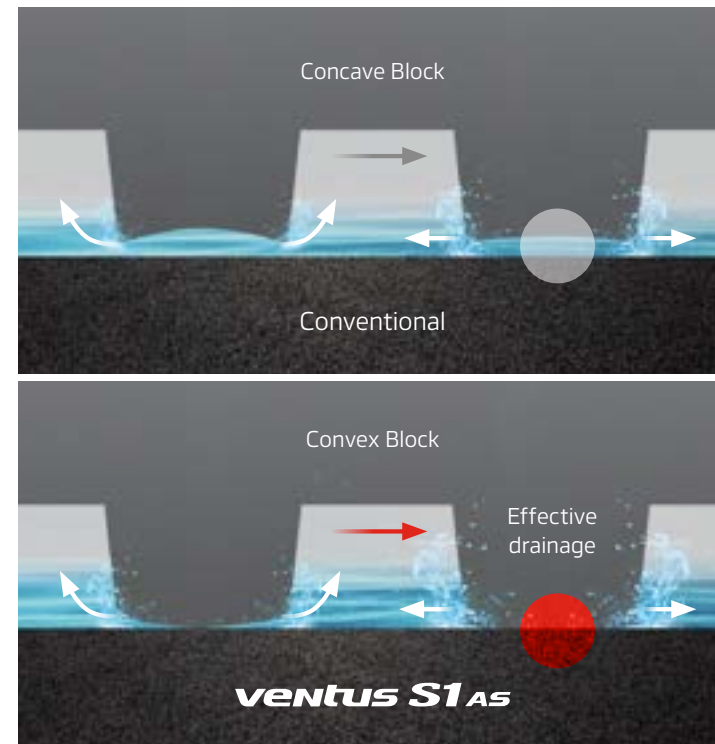
Technology

# Outstanding Grip Control on Wet Roads

With optimal security you can drive confidently on wet roads.

## Excellent Drainage in the Transverse Direction

It is designed to drain well while the block shape changes to convex during driving.

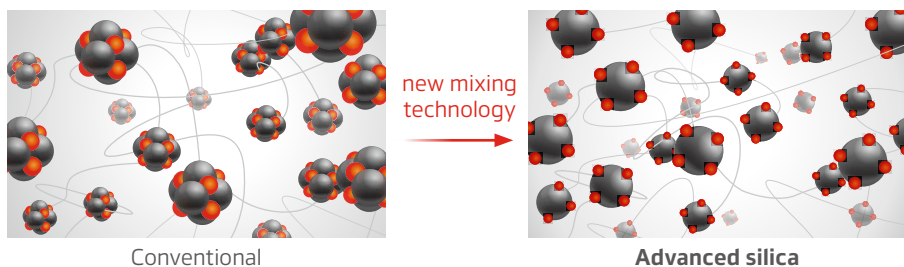


# Outstanding Grip Control on Wet Roads

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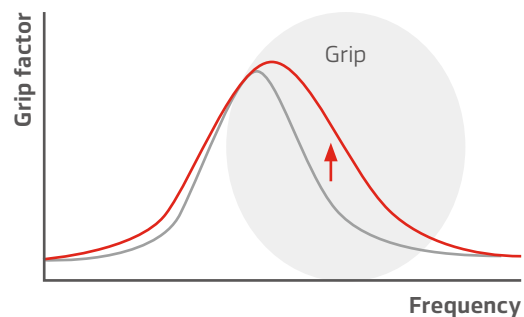
## New Four-Season High Performance Compound

This is Hankook Tire's new four-season compound designed for high-performance vehicles. A high concentration of silica was added to enhance the grip force on all surface conditions (wet & dry & snow).



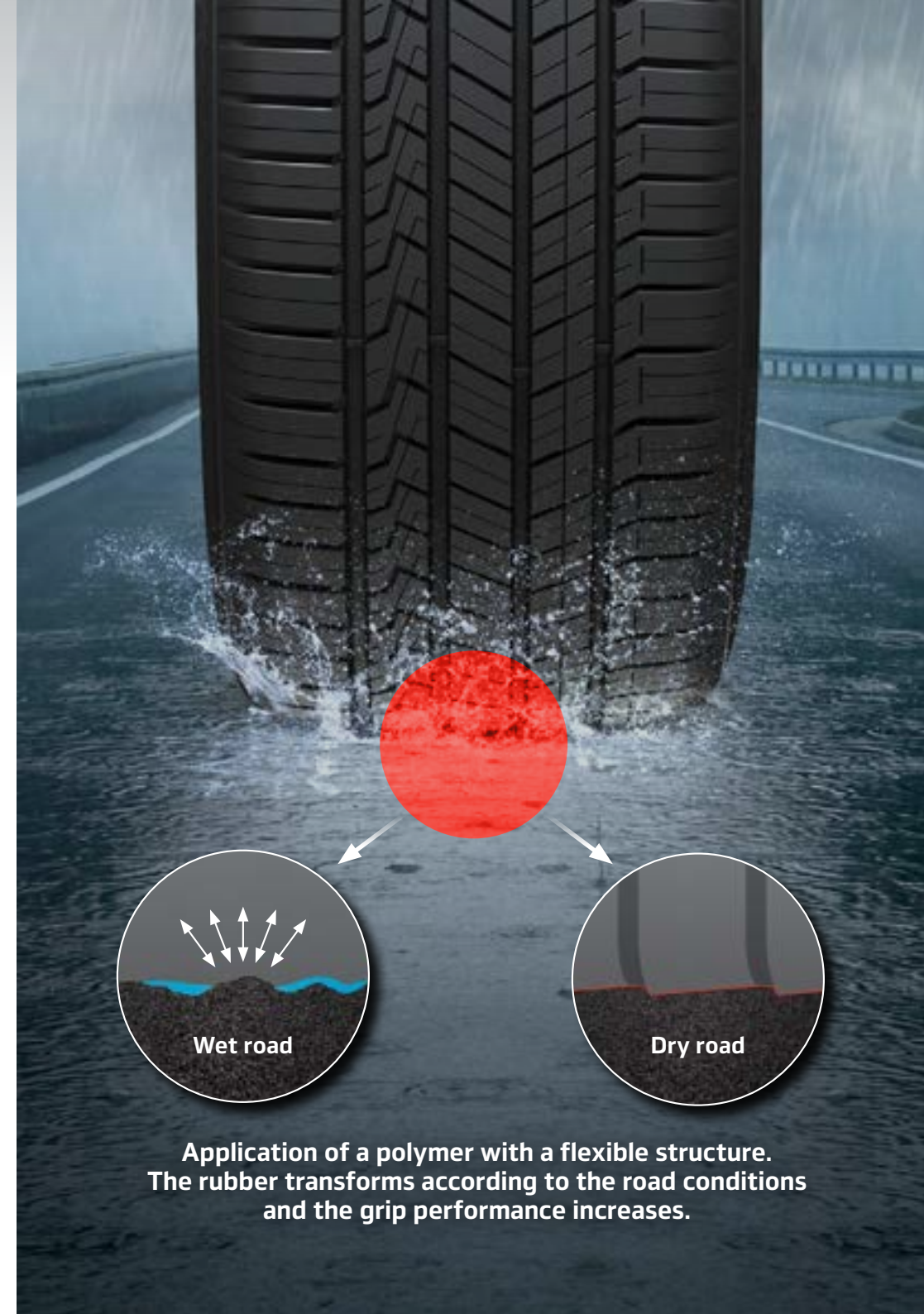
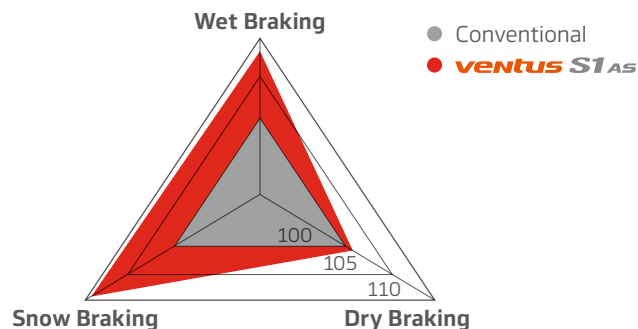
## Maximized Silica Dispersion by New Raw Materials Application (including natural ingredients) and Mixing Technology

By maximizing silica dispersion, grip force is improved in every condition.

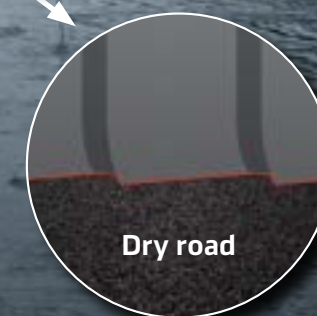


The high concentration of silica and newly added substances maximizes the grip force on different surface conditions and ranges.

— Advanced Silica  
— Normal Compound



Wet road



Dry road

Application of a polymer with a flexible structure. The rubber transforms according to the road conditions and the grip performance increases.



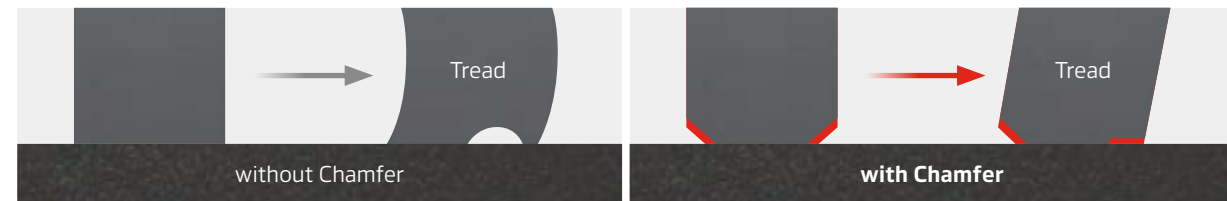
Technology

# Ultimate Handling and Steering Technology

Drive confidently with our refined handling and steering performance.

## Applied Shoulder Chamfer

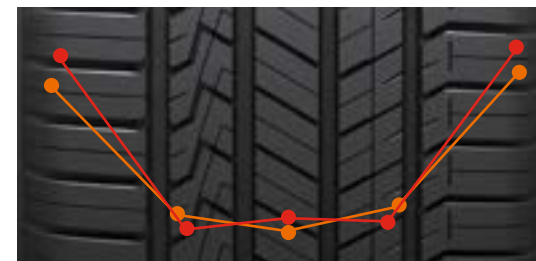
The shoulder chamfer maintains uniform grounding by suppressing the deformation of the block edge during driving. Uniform grounding improves dry performance by increasing grip on dry road surfaces.



## Wide Outside Block & High Stiffness

Dry handling performance is improved by the expanded outside shoulder block and increased lateral stiffness. A wider outside shoulder block ensures good dry handling performance, lateral stability, and steering response.

### Subjective dry handling test result



- **ventus S1 noble 2**
- **ventus S1 AS**



※ Above Internal result tested in 2020 (225/40R18)

- Conventional
- **ventus S1 AS**

Technology

# Stable Driving on Snowy Roads

Thanks to our excellent snow performance, handle the worst of conditions with ease.

## Wide Lateral Grooves



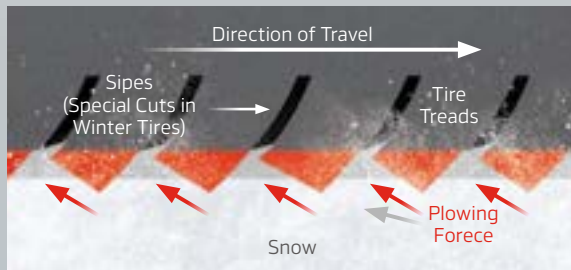
Conventional

ventus S1A5

The 3% wider lateral grooves increase the void volume, which improves grip performance in the snow because it grabs more snow.

## Increased Kerf Density

By increasing the kerf, we enhanced block flexibility and the number of biting edges to grip packed snow. Snow traction is enhanced when the end points (biting edges) of those tiny cuts open a bit as the tread is pushed against the road. All of those tiny open points (biting edges) effectively bite into snow and create additional traction.





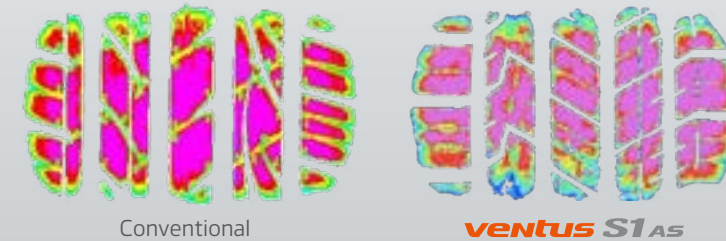
Technology

# Stable Driving on Snowy Roads

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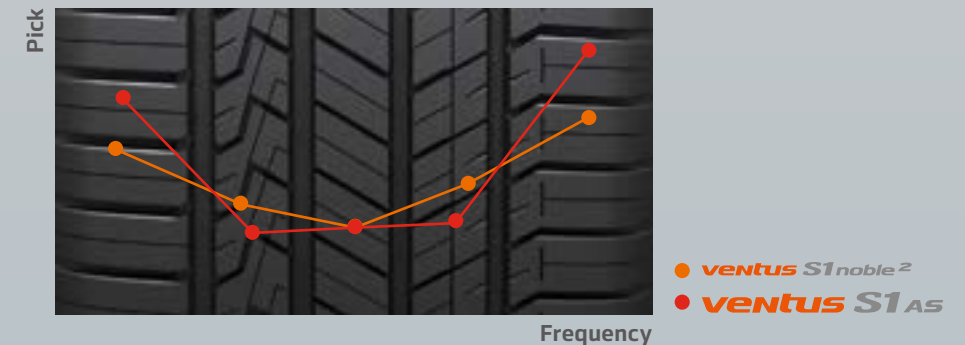
## Optimization of Ground Shape (Semi-Round)

We designed a well-balanced contact patch that can satisfy both snow and wear performance through simulation.



## High Longitudinal Pattern Stiffness

Feel the strengthened snow handling & snow braking performance thanks to the longitudinal pattern stiffness that minimizes snow traction loss.



# Performance Results



- **ventus S1 noble<sup>2</sup>**
- **ventus S1 AS**

\* Based on internal testing of Ventus S1 AS versus Ventus S1 noble 2 in size 225/40R18. On road results may vary.

# Tire Structure

## Tread Compound

Hankook Tire's new four-season compound designed for high-performance vehicles. We enhanced the grip force for every surface condition (wet & dry & snow) by adding a high concentration of silica and maximized silica dispersion.

## Jointless Full Cover Reinforcement Belt

Ideal tread strength.

## Application of High Strength Steel Belt Wire

Using high strength belts that perfectly absorb external shock, the durability and comfort of the tire has been greatly improved.

## Dual Layer Fibre Stiffener

With the dual structure of the carcass fibre stiffener, the resistance of the tire is structurally assured.



## Folded Belt Edge Tape

Endurance of the belt has been enhanced.

## Strong Jointless Bead Wire

By increasing the binding force between the wheel and the joint, even with high initial acceleration, the tire will always remain safely attached to the wheel.

# Available Sizes

Inch	Series	Size	UTQG	
16	55	205/55ZR16W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
17	40	245/40ZR17W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		45	215/45ZR17W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			225/45ZR17Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			235/45ZR17W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			245/45ZR17Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
	50		205/50ZR17W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			215/50ZR17W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			225/50ZR17W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			235/50ZR17W	TREADWEAR 560 TRACTION AA TEMPERATURE A
	55		215/55ZR17W	TREADWEAR 560 TRACTION AA TEMPERATURE A
		225/55ZR17W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		235/55ZR17W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
18	35	245/35ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		255/35ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		265/35ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
	40		215/40ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			225/40ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			235/40ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			245/40ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A

Inch	Series	Size	UTQG		
18	40	255/40ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A		
		265/40ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A		
	45		215/45ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			225/45ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			235/45ZR18W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			245/45ZR18Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
	50		255/45ZR18W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			225/50ZR18W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			235/50ZR18W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			245/50ZR18W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		55	245/55ZR18W	TREADWEAR 560 TRACTION AA TEMPERATURE A	
19	30	275/30ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A		
		285/30ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A		
	35		235/35ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			245/35ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			255/35ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			265/35ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			275/35ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
			285/35ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		40		225/40ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A



Inch	Series	Size	UTQG	
19	40	235/40ZR19W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		245/40ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		255/40ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		275/40ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		285/40ZR19Y	TREADWEAR 560 TRACTION AA TEMPERATURE A	
	45	225/45ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		245/45ZR19Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		255/45ZR19W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		275/45ZR19W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
	50	235/50ZR19W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		245/50ZR19W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		265/50ZR19W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
	55	235/55ZR19W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
	20	30	275/30ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
			285/30ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
35		235/35ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		245/35ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		255/35ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		265/35ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	
		275/35ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A	

Inch	Series	Size	UTQG
20	35	285/35ZR20Y	TREADWEAR 560 TRACTION AA TEMPERATURE A
		315/35ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
	40	245/40ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		255/40ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		275/40ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		245/45ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
	45	255/45ZR20W XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		265/45ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		275/45ZR20Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		245/35ZR21Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
21	35	255/35ZR21Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		265/35ZR21Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		275/35ZR21Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
		265/35ZR22Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A
22	35	285/35ZR22Y XL	TREADWEAR 560 TRACTION AA TEMPERATURE A