



# ***ventus S1evo Z***

*Maximum performance with proven motorsport technology*





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Features and performance information

Design Award



# ventus S1evo Z



## Technical Profile

Tread width

**225-295**

Series

**30-45**

Inch

**18-22**

Speed symbol

**Y,(Y)**

## Applied Technology & Tire Performance



Compound



Grip



Dry handling



Wet handling



Durability



Identity history

# Ventus Product Family

**Globally Proven Technology**

Ventus products have globally proven technology by OE carmakers.

Ventus products give best driving pleasure based on technology inspired by racing competition.

PORSCHE



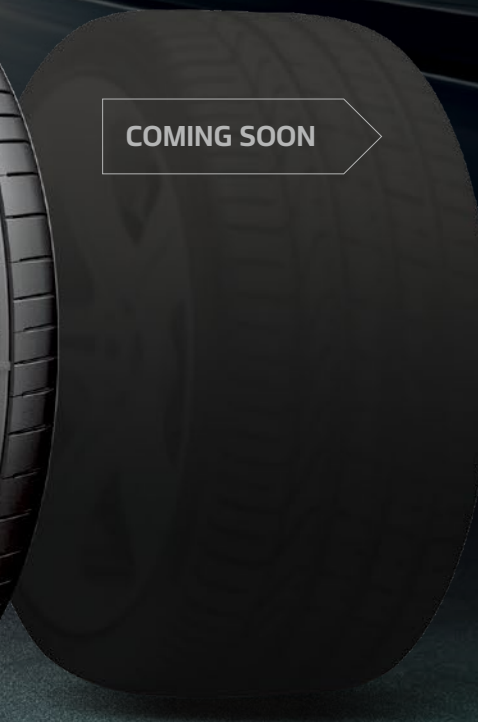
**ventus Prime<sup>3</sup>**



**ventus S1evo<sup>3</sup>**



**ventus S1evo Z**



**Ventus Cup & Track**



2016

BALANCE



ventus Prime<sup>3</sup>

2019

PREMIUM  
SPORT



ventus S1evo<sup>3</sup>

2021

SUPER SPORT

NEW



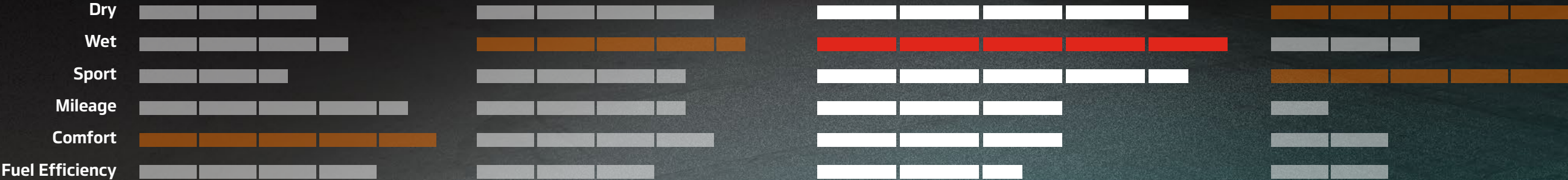
ventus S1evo Z

Coming Soon

CUP & TRACK

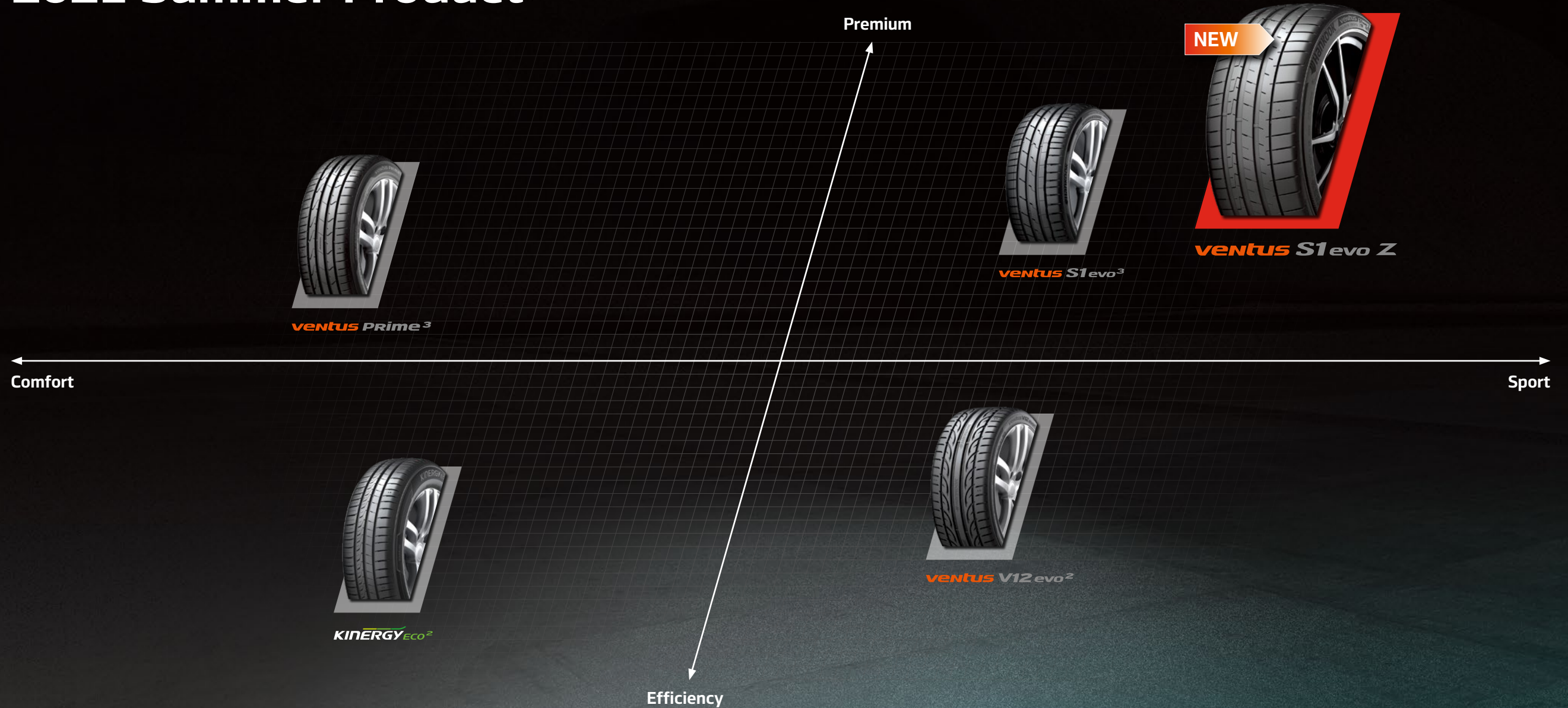


VENTUS CUP & TRACK



Positioning map

# 2021 Summer Product





Concept

# ***SPORT DRIVING***

*Maximum performance with  
proven motorsport technology*





Product concept

## Impressive Handling and Steering Control

Stable cornering control on both Wet & dry road conditions



## Maximum Braking Performance

Reduce Braking distance due to New Silica & Resin compound on both wet & dry road condition



## Optimum Stable Performance During Powerful Acceleration

Give maximum driving pleasure and safety due to stable performance at high speed





# Maximum Braking Performance

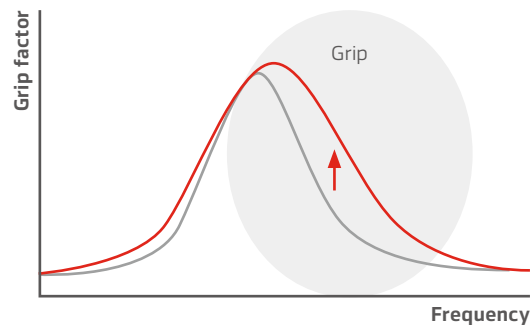
## New Silica & Resin Compound

This is a new compound based on motorsport tire development technology. It helps the tire's rubber particles to easily penetrate the road surface in high temperature conditions for maximum handling and braking performance.



Normal Tire

ventus S1evo Z



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

— Advanced Silica  
— Normal Compound



## EU Tire Labelling Regulations

A detailed image of a Hankook EU Tire Label for the 'ventus S1evo Z' model. The label includes the Hankook logo, a barcode, the tire size '255/40ZR21 102 (Y)', and energy efficiency ratings for fuel consumption (A), wet grip (A), and noise (72 dB). It also features a QR code and the text 'Hankook 1024833'.



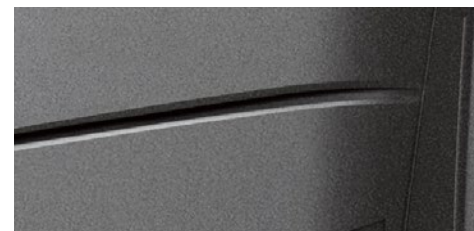


Technology

# Impressive Handling and Steering Control

## Expanding Lateral Groove

Broaden lateral groove on the shoulder enhances water evacuation and tread block stiffness while reducing noise. Lateral groove shape optimization considering poisson effect under loading condition.



Normal Tire



**ventus S1evo Z**

## Maximum Wide Shoulder Block

Wide shoulder block & narrow straight groove on outside for improvement of dry grip. Maximizing dry grip with satisfaction of required hydroplaning. Optimization of groove width and location for the balance on dry/wet performance.



Normal Tire



**ventus S1evo Z**



Technology

# Impressive Handling and Steering Control

## Inside & Outside Dual Pitch

### INSIDE

#### Wet Braking

Broaden lateral groove on the shoulder enhances water evacuation and tread block stiffness while reducing noise. Lateral groove shape optimization considering poisson effect under loading condition.

70  
pitches

52  
pitches

### OUTSIDE

#### Dry Handling

The number of outer pitched is optimized to secure the steering grip performance required for dry cornering, this is designed to contribute to the reduction of pattern noise as well.



# Optimum Stable Performance During Powerful Acceleration

## Highest driving quality brought to life with an Aramid reinforcement belt

Aramid reinforcement belt is applied with the best material that is available for tires today, To allow an exquisite handling by maintaining the optimized shape of contact surface.

### Aramid - Strongest Fiber on Earth

#### Para-Aramid, the strongest polymer material

Aramid, a super-fiber that closely resembles the theoretical property of matter in terms of chemical structure, is a high-performance materials in which most of Production on Earth is used in high-technology industries such as military, aircraft, aerospace, and marine. It has 5 times more strength than iron steel.

Also, except for in 99% sulfur substance, it has the chemical resistance that can withstand all chemical substance without dissolving or decomposing, and the stability that prevents melting at high temperature and only carbonizes at temperature over 500°C.

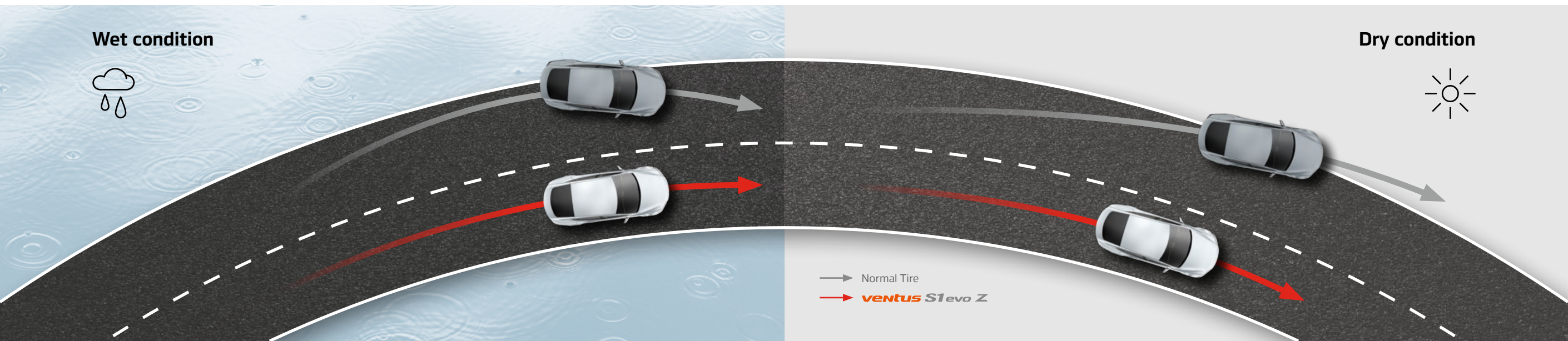




# Optimum Stable Performance During Powerful Acceleration

## Aramid Hybrid Cord

Prevents the increase diameter of the tire due to the centrifugal force while driving, and minimizes the tread deformation due to lateral force from changing directions. Provides a neutral handling and notion performance under various driving conditions. It improves the handling stability and high-driving performance, and contributes to the minimization of abnormal and one-sided wear as well as the improvement of heavy-load capacity.





# Tire Structure

## Tread Compound

This is a new compound based on motorsport tire development technology. It helps the tire's rubber particles to easily penetrate the road surface in high temperature conditions for maximum handling and braking performance.

## Aramid Hybrid Reinforcement Belt

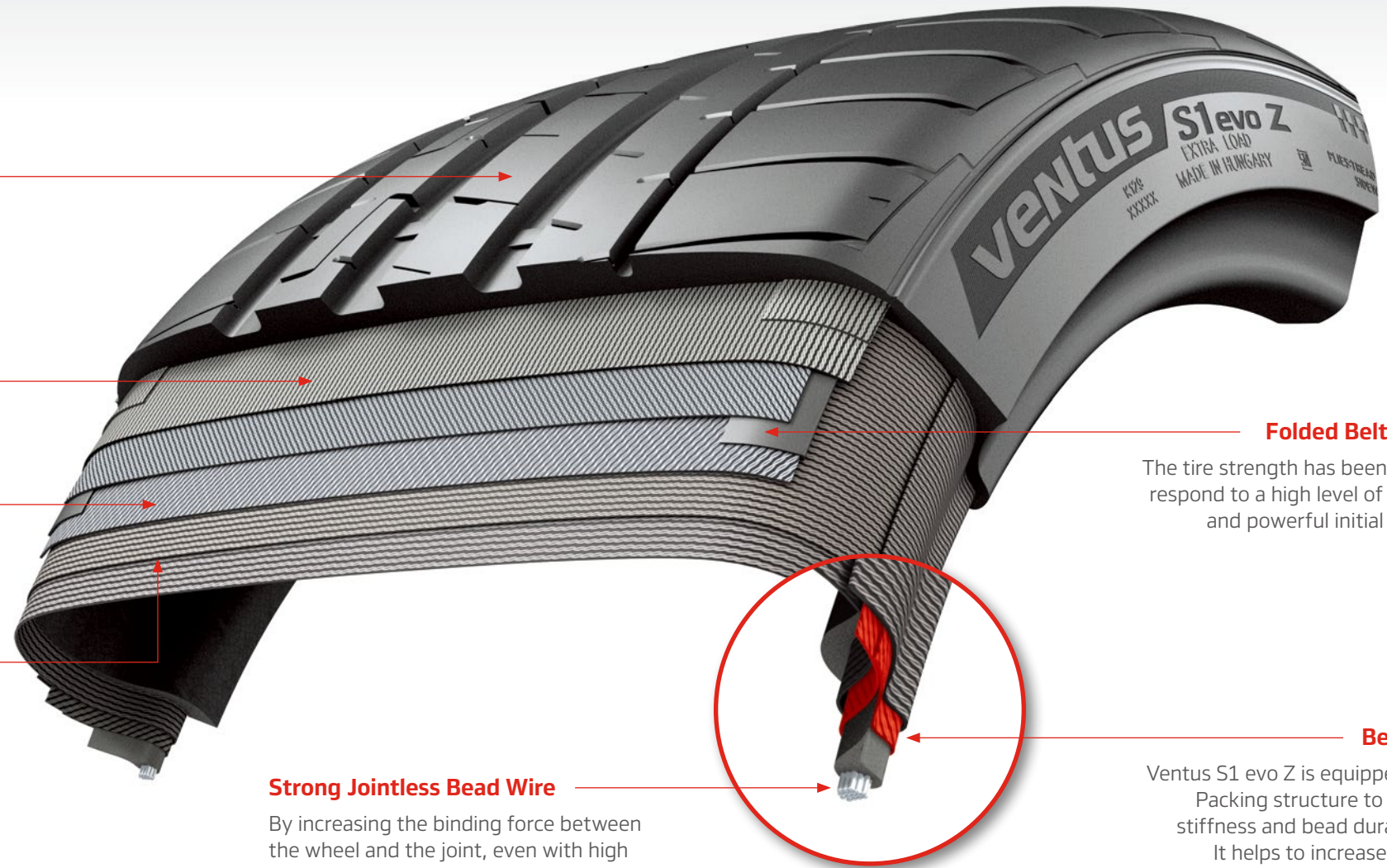
Tire strength has been increased to respond to high levels of initial output and initial acceleration.

## 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

The tire strength has been increased to respond to a high level of initial output and powerful initial acceleration.

## Bead Packing

Ventus S1 evo Z is equipped with Bead Packing structure to improve side stiffness and bead durability of tire. It helps to increase stability and performance at high speed.

## Strong Jointless Bead Wire

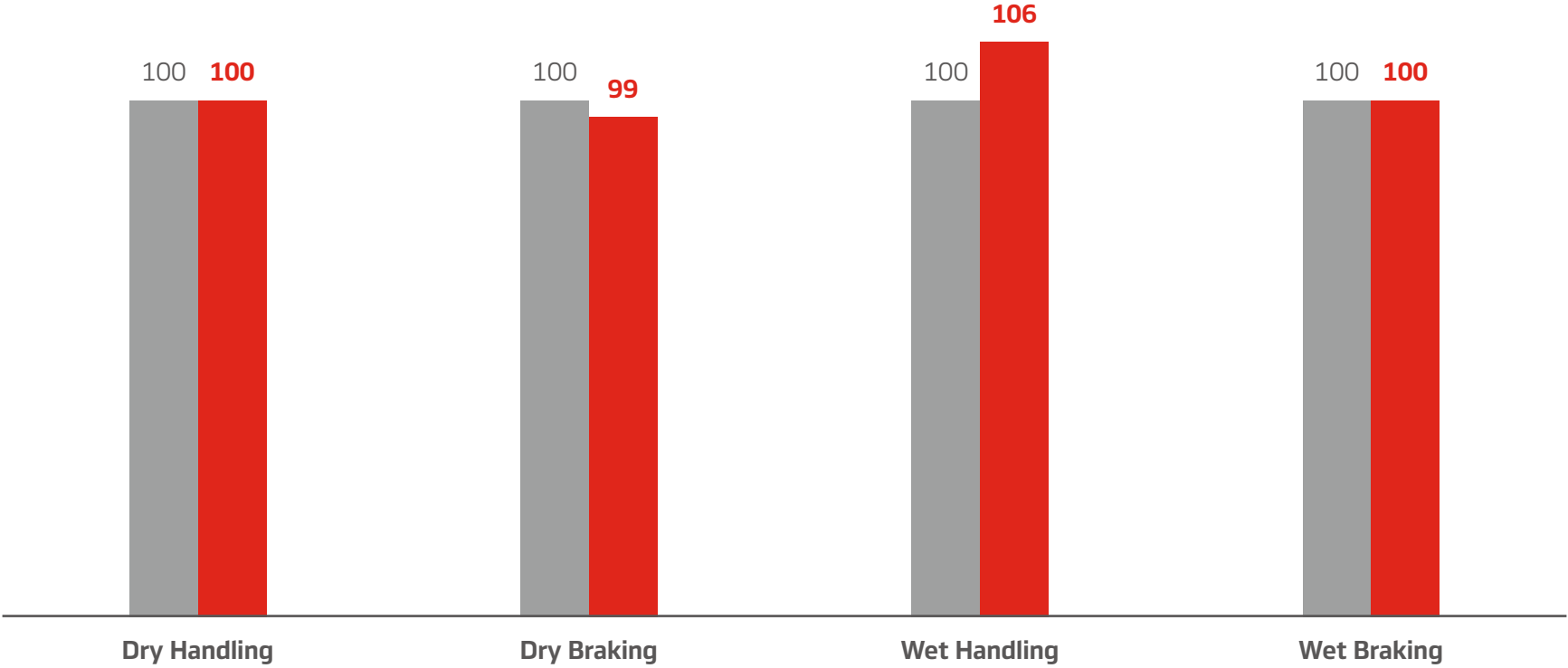
By increasing the binding force between the wheel and the joint, even with high initial acceleration, the tire will always remain safely attached to the wheel.



# Performance Results

Use this page internally, not for externally

● Competitor  
● *ventus S1*evo Z



\* Above Internal result tested in Feb 2020 on IDIADA PG (Test Car was Porsche Panamera with 275/40ZR20(Y) XL, 315/35ZR20(Y) XL)



# Available Sizes

M-code	Size	TW	Series	Inch	R.R	Wet	PBN	Applied Vehicle	OE Mark
1028604	275/35ZR21(Y) XL	275	35	21	C	A	72	Audi RS6, RS7, Bentley Continental GT, Flying Spur, AMG GT 4, Model Y	
1024833	255/40ZR21(Y) XL	255	40	21	D	A	73	BMW X3M/X4M	★
1024834	265/40ZR21(Y) XL	265	40	21	C	A	73	BMW X3M/X4M	★
1028605	285/30ZR20(Y) XL	285	30	20	D	A	73	BMW M3/4 (Rear), Jaguar F-Type, C-class AMG, Model 3	
1027958	315/35ZR20(Y) XL	315	35	20	B	A	71	Porsche Panamera (Rear)	NDO
1027957	275/40ZR20(Y) XL	275	40	20	B	A	71	Porsche Panamera (Front)	NDO
1028607	235/35ZR19(Y) XL	235	35	19	D	A	71	Golf R, BMW M2, 1/2 Series, Veloster N	
1028608	245/35ZR19(Y) XL	245	35	19	D	A	71	BMW M2 (front), Audi TTRS, R8, Huracan, McLaren 720S, Senna, Benz A/C/E AMG	
1028609	255/35ZR19(Y) XL	255	35	19	C	A	72	3/4 Series, Z4, C Class (Rear), Benz A/C/E AMG, Genesis G70	
1028610	265/35ZR19(Y) XL	265	35	19	C	A	72	BMW M2 (Rear), M3/4 (front), Benz C/E AMG	
1028611	285/35ZR19(Y) XL	285	35	19	D	A	73	BMW M3/4, Benz AMG (Rear), Nissan 370Z	
1023877	295/40ZR19Y XL	295	40	19	B	A	71	Porsche Panamera (Rear)	NDO
1028606	225/40ZR19(Y) XL	225	40	19	D	A	71	3/4 Series, C Class (Front), Audi TTRS, Genesis G70	
1023876	265/45ZR19Y XL	265	45	19	B	A	71	Porsche Panamera (Front)	NDO
1024867	225/35R18Y XL	225	35	18	D	B	69	BMW Mini JCW	★





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