



**HANKOOK**  
driving emotion

**ION** evo  
**ION** evo SUV

*Evolutionized to perform more*



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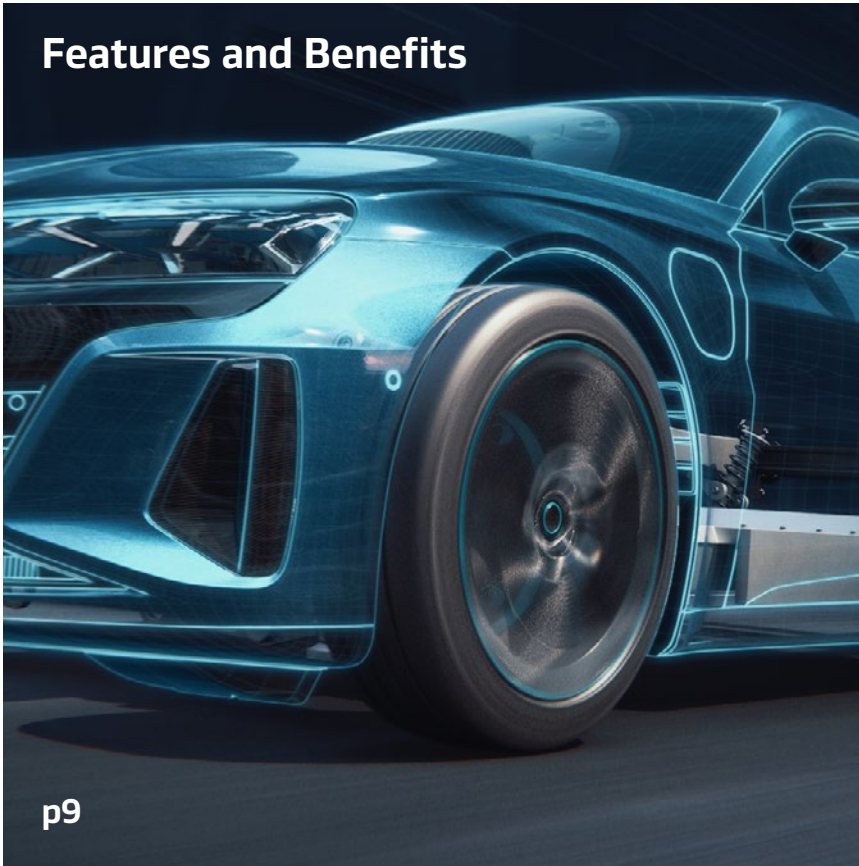
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## Specifications

# *ION* evo *ION* evo SUV

### Technical Profile

Tread width

**225-305**

Series

**30-65**

Inch

**18-22**

Speed symbol

**H, V, W, Y**

EU Labeling (RRc/Wet Grip/Noise)

**A-B / A / A**

### Applied Technology & Tire Performance



Evolution compound



Hankook Evolution Technology



Hankook Sound Absorber



Extended battery range



High grip



EV handling



Low noise





The iON Family

# The iON Family

*iON* evo AS  
*iON* evo AS SUV

ALL-SEASON  
for America, Asia

*iON* evo  
*iON* evo SUV

SUMMER

*iON* Winter  
*iON* Winter SUV

WINTER STUDLESS



iON evo (and SUV) Vehicle Fitments

		 Compact Car	 Sedan	 Sport Sedan	 Sport & High Performance Car	 Compact & Medium SUV	 Large & High Performance SUV
Summer	Sport						
	Balance					 	

# Why EVs Need EV Specific Tyres

## For ICE Vehicles



### Ultra High Performance Summer tyre

Optimized for ICE vehicles, these tyres will not perform as well as on ICEs when mounted on electric vehicles.

## Modified for Electric Vehicles



### ventus S1evo<sup>3</sup> EV

Tuned and modified from an ICE tyre basis, to perform on electric vehicles. The common type of EV tyres currently seen and available in the market.

## Tailored Specifically for Electric Vehicles

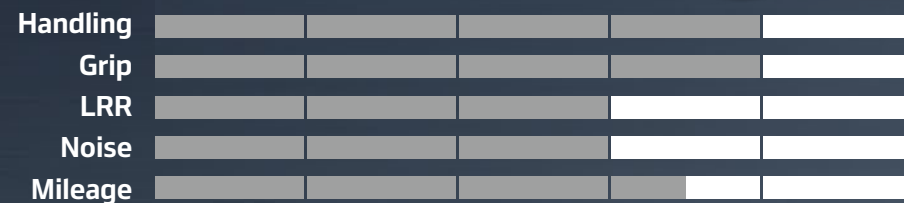


### iON evo

Tailored specifically for high-end electric vehicles, the iON evo (and SUV) is the answer to maintaining class.



## ELECTRIC VEHICLE TESTED PERFORMANCE RATINGS



\* Popular electric vehicle fitments of the Ventus S1evo3 EV  
Porsche Taycan/ Tesla Model Y/ VW ID6, ID4, ID3/ Audi E-Tron

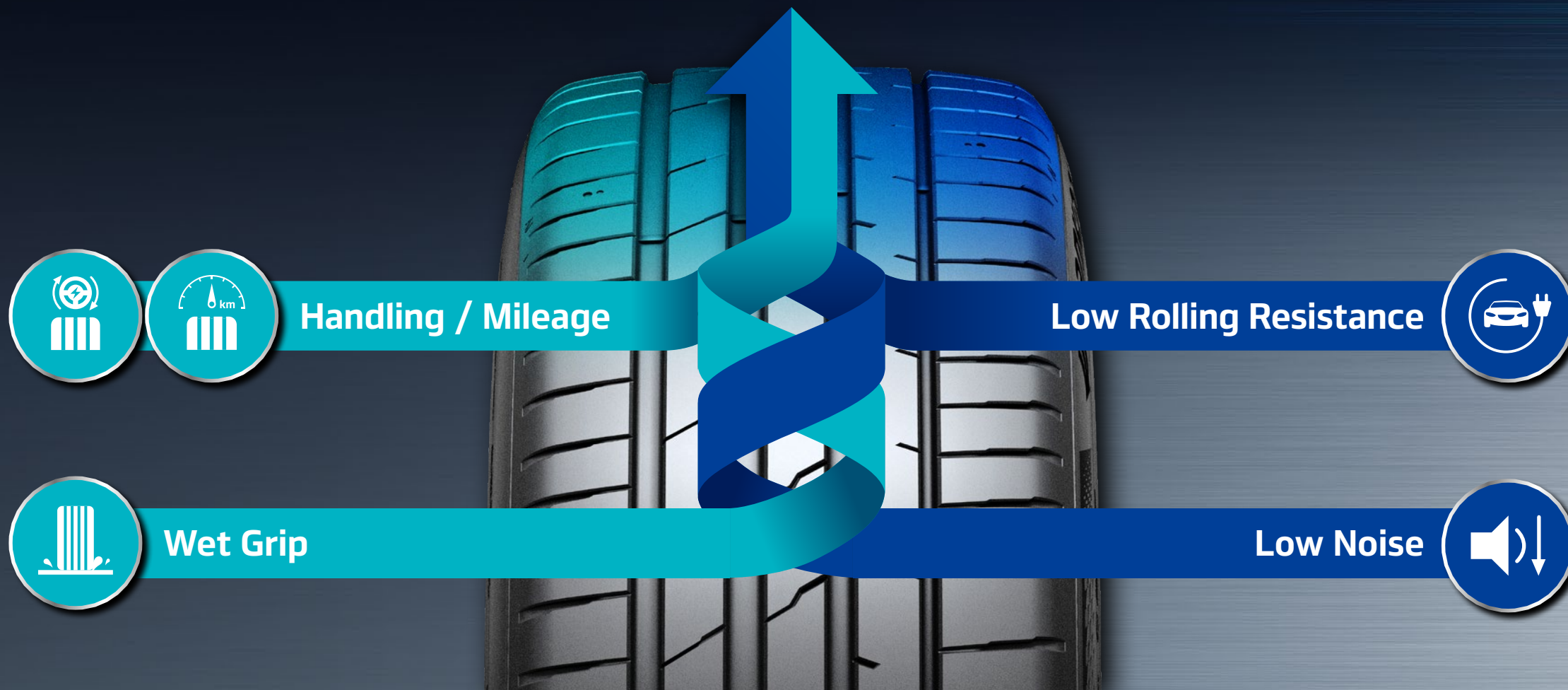
\* Equipped with all the technology applied in  
the ABB FIA Formula E World Championship official tire



# Double the Advantage

The iON evo (and SUV) pushes the limits of trade-offs to reach optimum performance.  
The iON evo (and SUV) is specifically tailored for electric vehicles, but also equipped with the best of both worlds.

## UNCOMPROMISED PERFORMANCE



# Aced All Grades

## Triple A rated in EU Tyre label

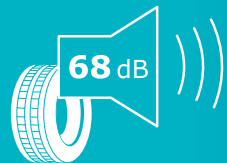
The iON evo (and SUV) achieved a hat-trick in the EU Tyre label grade which is extremely exceptional in the tire industry, and especially first for an EV exclusive tire.



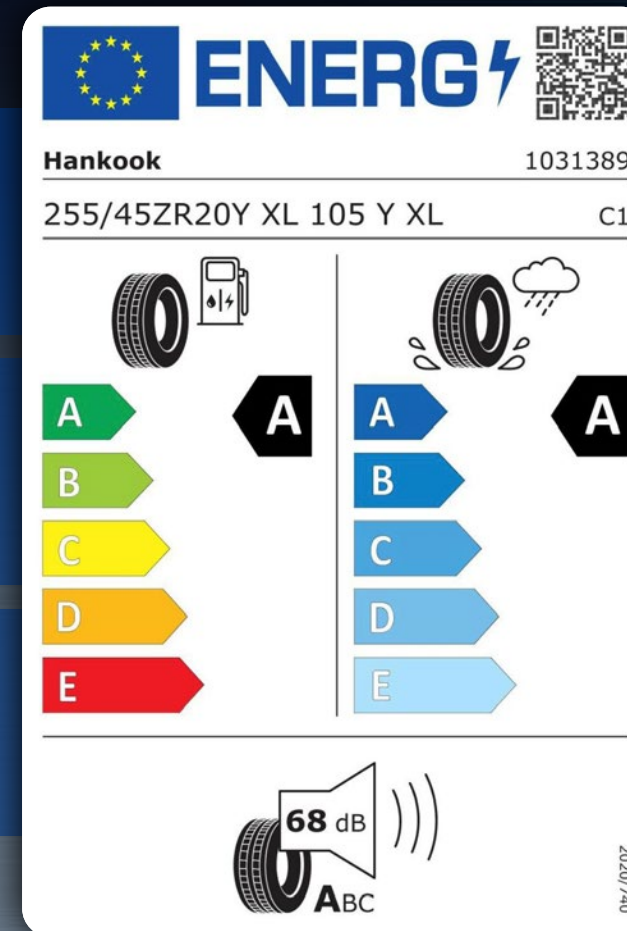
## LOW ROLLING RESISTANCE



## WET GRIP



## LOW NOISE



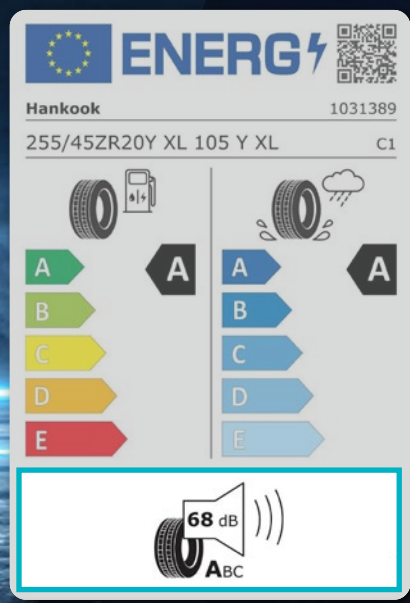
\* EU label grade varies by size. Please refer to the 'Available Sizes' page for further information.



# Drive in Peace

## Noise Proof Technology

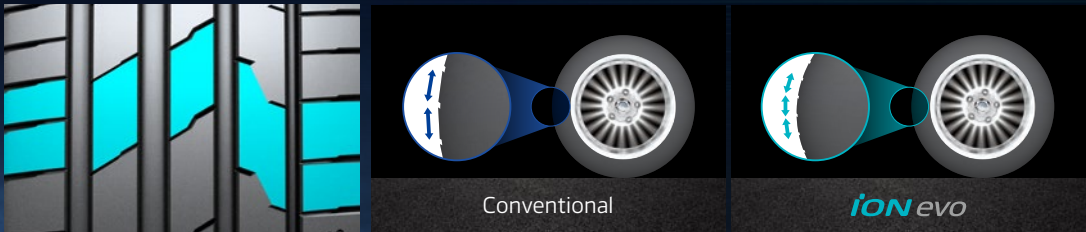
Electric motors are almost soundless which eventually causes the driver to hear more noise from tyres. With the Hankook Sound Absorber™, the iON evo (and SUV) offers a quiet and pleasant ride in all speed ranges.



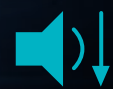
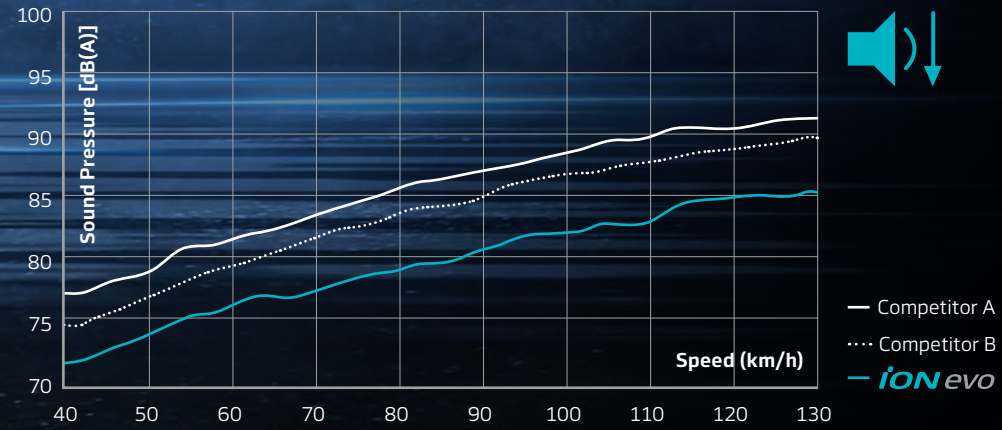
## Minimized Tread Pattern Noise

### Optimized Multi-Pitch Sequencing

Tire noise can be drastically reduced by optimizing the pitch sequence. The iON evo (and SUV) has optimized the number and size of pitches to listen more to what matters.



## Pattern Noise Test Result

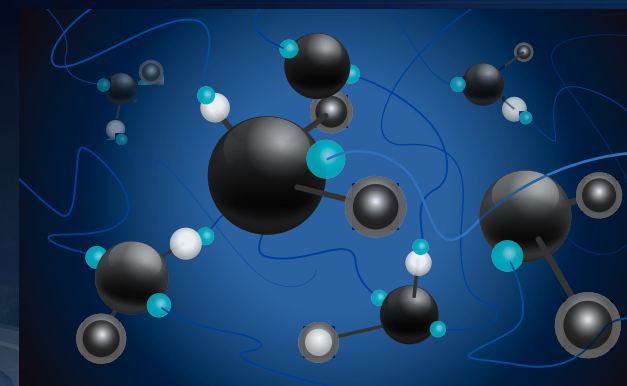




# Go Further for More Experience

## Even Tread Wear and Enhanced Mileage

Battery weight makes electric vehicles up to 30% heavier than ICE vehicles, which frequently causes uneven wear on tyres. The iON evo (and SUV) is made of a compound specifically made for electric vehicles to evenly spread road pressure and extend tyre life in a healthier condition.



### Extended Tread Life

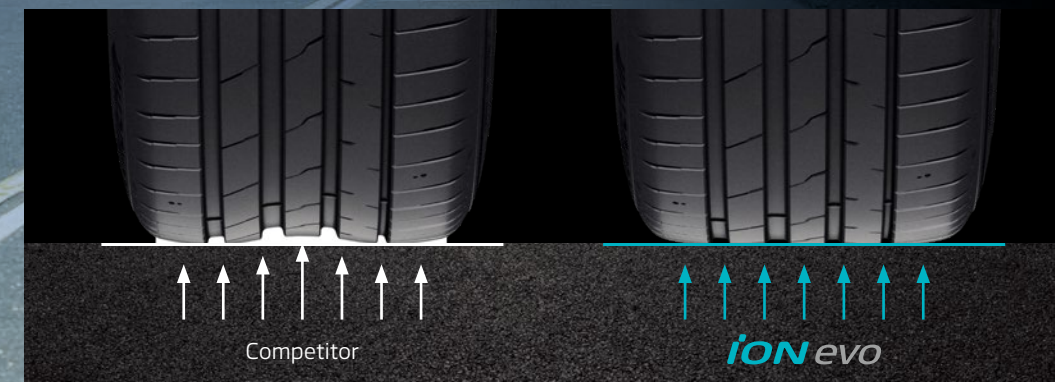
#### Evolution Compound

Composed with high-concentration silica and eco-friendly materials, the EVolution compound provides satisfactory mileage and further reduced rolling resistance.

### Even Tread Wear

#### Optimized Ground Pressure Distribution

Tires equipped on electric vehicles wear out approximately 20% faster with uneven wear than on ICE vehicles. Designed to spread the ground pressure evenly, the iON evo (and SUV) provides longer usage and less replacement.

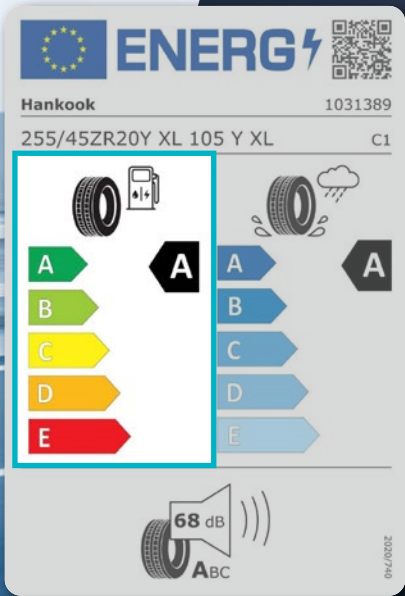




# Charge Less, Cruise More

## Extended Range

Hankook understands the concerns of losing energy while driving Electric Vehicles. By reducing the rolling resistance, the battery lasts longer to drive a longer distance. A few miles can be crucial during an emergency.

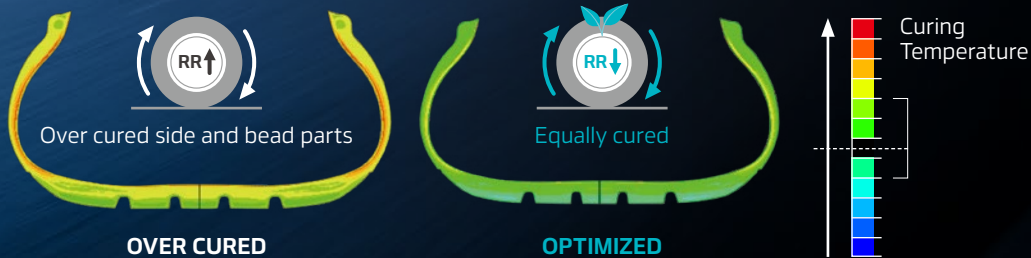


\* EU label grade varies by size. Please refer to the 'Available Sizes' page for further information.

## Further Reduced Rolling Resistance

### Optimized Curing

The iON evo (and SUV) achieved the highest grade of LRR performance by applying an advanced compound and Hankook tire's optimized curing technology which improves all parts of the tire equally.

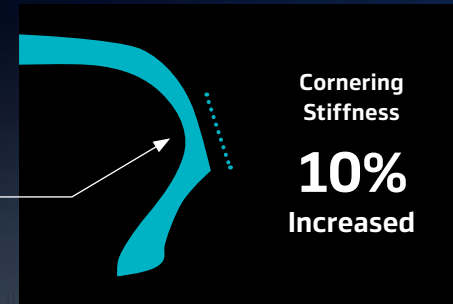




# Be in Complete Control

## Advanced Handling

Designed to bear the initial torque power of Electric Vehicle motors, the iON evo (and SUV) offers excellent handling and grip performance for premium electric vehicles.



### Enhanced Cornering Stability

#### EV Contour Technology

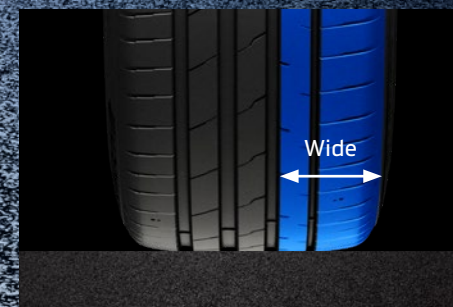
Tire stiffness is essential to be improved to bear the weight of electric vehicles. Hankook's EV Contour Technology increases cornering stiffness by 10% to advance electric vehicle handling performance.



### Improved Steering at High Speeds

#### Aramid Hybrid Reinforcement Belt

A reinforcement belt mixed with the most advanced fiber, Aramid, is applied on the iON evo (and SUV) to improve steering performance and maintain an optimized shape during high-speed driving.



### Excellent Traction

#### Extended Shoulder Blocks with Optimized Rigidity

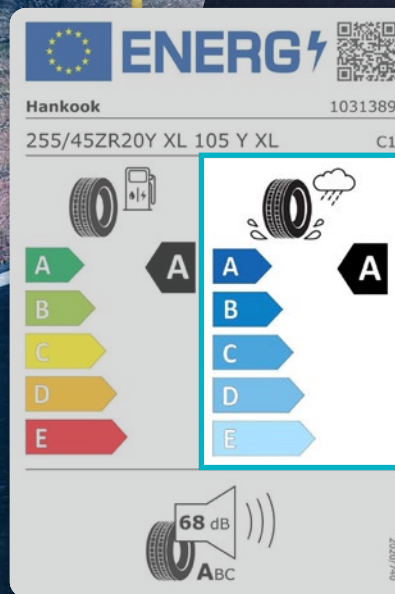
To prevent slippage caused by the high torque of electric vehicles, the pattern block rigidity is optimized with extended outside shoulder blocks for maximum road contact.



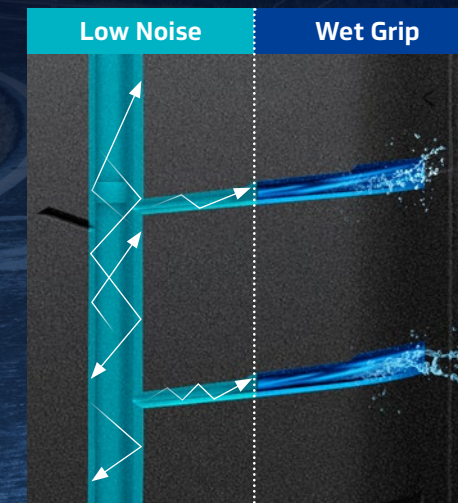
# Grip Maintained in the Rain

## Enhanced Wet Grip

By achieving grade A in the EU tyre labelling wet grip item for all available sizes, the iON evo (and SUV) provides guaranteed wet performance without missing noise reduction to maximize driving pleasure.



## Wet Performance without missing Noise Reduction



### Expanding Lateral Grooves

The lateral grooves are designed narrower on the inside to reduce air-pumping noise, and wider on the outside to secure wet performance. This is another double advantage of the iON evo (and SUV).



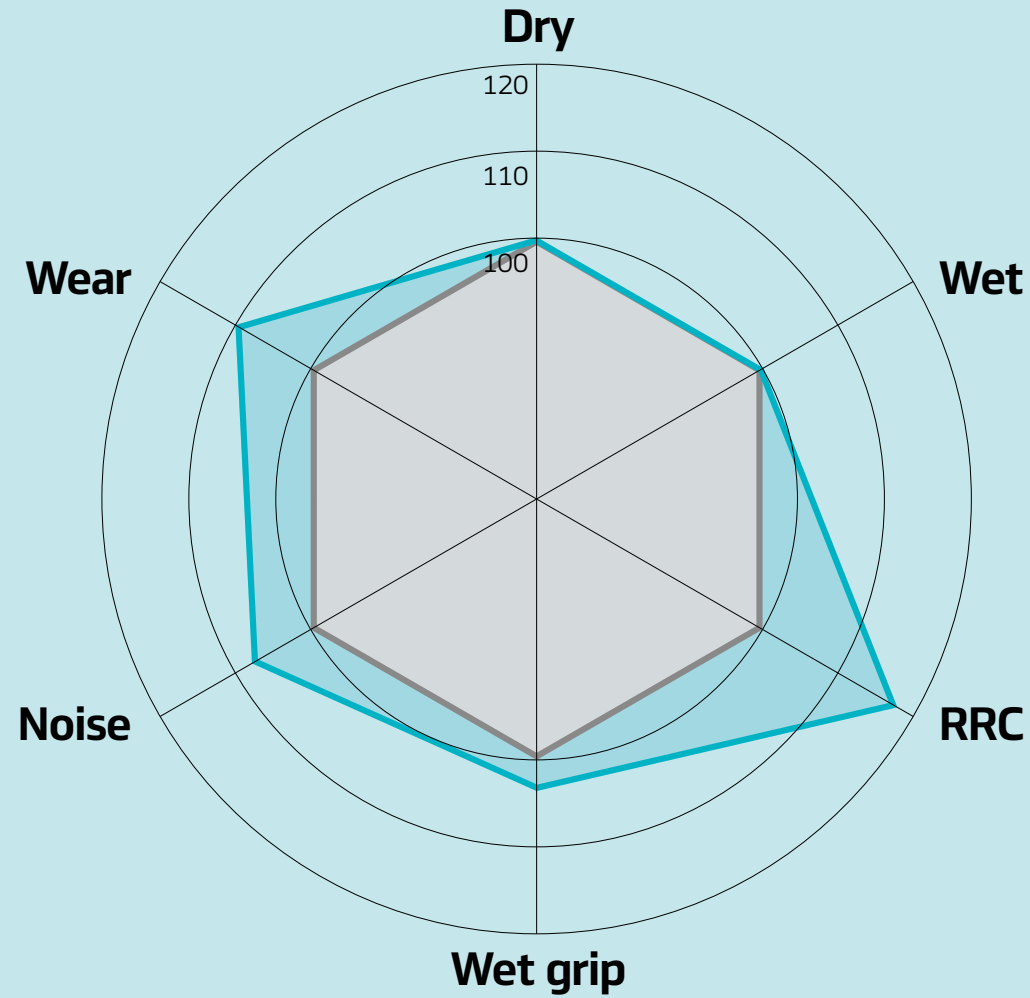
### Optimized Groove Size

To prevent groove resonance while driving, the iON evo (and SUV) has optimized the size of grooves. Expanding the 2 grooves on the inside wider has also improved drainage performance.



# Performance Results

Use this page internally, not for externally



● Competitor  
● **iON** evo

\* Based on internal testing of iON evo versus MC Pilot sport 4 Tesla Model S OET in size 245/45R19Y XL.  
On road results may vary. (Test Car: Model S)



# TÜV SÜD - Tire Test 2022

## 245/45 ZR19 102Y XL - HANKOOK ION EVO

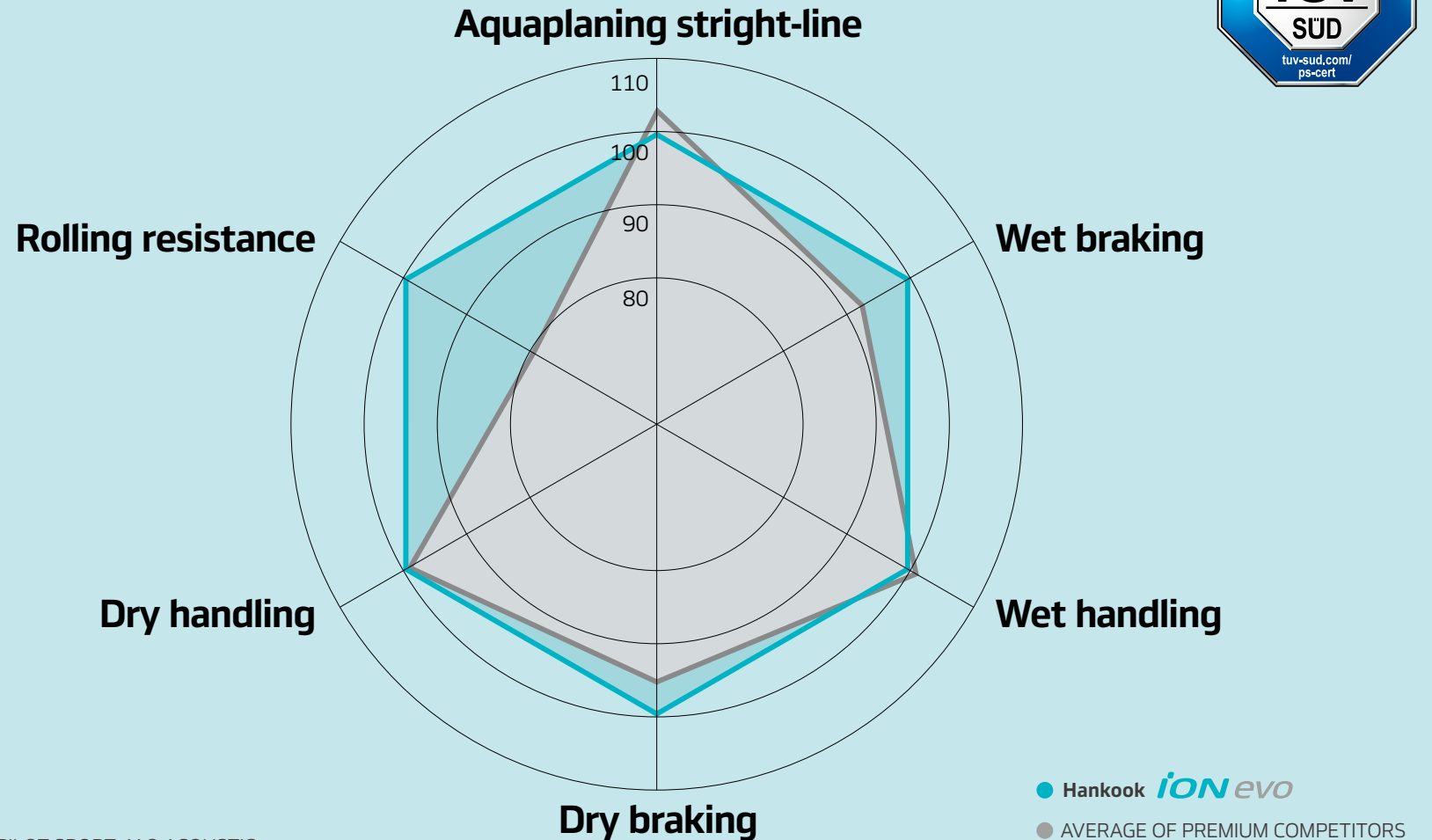


	HANKOOK ION evo	AVERAGE OF PREMIUM COMPETITORS
ROLLING RESISTANCE ECE R117 Annex 6	100%	79.9%
WET BRAKING ABS-braking, 80 to 20 km/h	100%	92.6%
WET HANDLING Subjective assessment	100%	101.2%
DRY BRAKING ABS-braking, 100 to 0 km/h	100%	95.9%
DRY HANDLING Subjective assessment	100%	99.5%
AQUAPLANING STRAIGHT-LINE Aquaplaning speed [km/h] at 15% slip	100%	103.1%
ROLLING NOISE ECE R117 Annex 3	70dB	71dB
WET GRIP INDEX ECE R117 Annex 5	1.75	-
HIGHSPEED TEST ADVANCED	100%	-

### Compared to 4 Premium competitors :

BRIDGESTONEPOTENZA SPORT,GOODYEAREAGLE F1 ASY. 5,MICHELINPILOT SPORT 4,MICHELINPILOT SPORT 4AO ACOUSTIC

\* Tested by TÜV SÜD Product Service GmbH in Papenburg March 2022 by order of Hankook tyre,  
Tyre Size: 245/45 ZR19 102Y XL; Test Car: Tesla Model S 85, Tesla Model S P100D, Audi Q5 Sportback 40TDI, VW Tiguan 2.0TDI  
Test Locations: Wet & Dry: IDIADA (E), WGI: ATP Papenburg(D), Noise: Neubiberg(D), Rolling Resistance: TÜV SÜD PS Garching(D)  
Report No. 713252186-BM01



# Tire Structure

## EVolution Compound

Composed with high-concentration silica and eco-friendly materials, provides **satisfactory mileage and further reduced rolling resistance.**

## Aramid Hybrid Reinforcement Belt

A reinforcement belt mixed with the most advanced fiber, Aramid, is applied on the iON evo (and SUV) to **improve steering performance and maintain an optimized shape during high-speed driving.**

## High Strength Steel Belt

High strength steel belts are applied to absorb impact and **to improve durability and comfort.**

## Mono Layer Structure of Fiber Stiffener

A mono layer of fiber stiffener with super turn up structure is applied to **reduce rolling resistance and to improve sidewall stability.**



## Folded Edge Tape

Folded edge tapes are placed between belts for **additional durability.**

## Jointless Bead Wire

Jointless bead wires help the tyre to remain safely attached to the wheel with **increased binding force.**



Available Sizes



Inch	Series	Size	Rolling Resistance	Wet Grip	Noise Class	PBN	Available vehicle
21	30	305/30ZR21Y XL	A	A	A	69dB	Taycan, Etron GT
	35	245/35ZR21Y XL	B	A	A	69dB	Model S
		265/35ZR21Y XL	B	A	A	68dB	Model S, Taycan, Etron GT
20	35	235/35ZR20Y XL	B	A	A	69dB	Model 3
	40	285/40ZR20Y XL	A	A	A	69dB	Taycan, Etron GT
	45	245/45ZR20Y XL	B	A	A	69dB	Taycan, Etron GT
19	45	245/45ZR19Y XL	A	A	A	69dB	Model S, IONIQ 6
18	45	235/45ZR18W XL	B	A	A	69dB	Model 3
	55	225/55ZR18W XL	B	A	A	69dB	IONIQ 6



Inch	Series	Size	Rolling Resistance	Wet Grip	Noise Class	PBN	Available vehicle
22	35	285/35ZR22W XL	A	A	A	69dB	e-tron, Model X
		295/35ZR22Y XL	A	A	A	69dB	Macan BEV
	40	255/40R22V XL	B	A	A	68dB	I-PACE
21	35	255/35ZR21W XL	B	A	A	68dB	Model Y
		275/35ZR21Y XL	A	A	A	68dB	Model Y
	40	295/40ZR21Y XL	A	A	A	69dB	Macan BEV
	45	255/45ZR21Y XL	A	A	A	68dB	Macan BEV
20	40	255/40ZR20W XL	B	A	A	68dB	Model Y
	45	255/45ZR20Y XL	A	A	A	68dB	e-tron, Model X, ID.4, IONIQ 5, EV 6
		285/45R20H XL	A	A	A	69dB	e-tron
	50	245/50R20V XL	A	A	A	69dB	I-PACE
19	55	235/55ZR19Y XL	A	A	A	69dB	e-tron, ID.4, IONIQ 5, EV6, GV60
	60	235/60R19V XL	A	A	A	69dB	Macan BEV
18	65	235/65R18V XL	A	A	A	69dB	I-PACE



**Hankook Tire & Technology Co., Ltd.**

286, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do 13494, Korea T +82-31-5178-7000

[www.hankooktire.com](http://www.hankooktire.com)

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