

***ION** i\*cept*  
***ION** i\*cept **SUV***

*Evolutionized to perform more in winter*

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Features and Performance Information

# *ION* *icept* *ION* *icept* **SUV**

## Technical Profile

Tread width

**215-305**

Series

**30-65**

Inch

**18-22**

Speed symbol

**H, V**

EU Labeling (RRc/Wet Grip/Noise)

**C-D / B / A**

## Applied Technology & Tire Performance



Evolution compound



Hankook Evolution Technology



Hankook Sound Absorber



Extended battery range



EV controlling



Low noise



Winter application



Test Result & Design Award



# The iON Family

*iON evo AS*  
*iON evo AS SUV*

ALL-SEASON  
for America, Asia

*iON icept*  
*iON icept SUV*

WINTER STUDLESS

*iON evo*  
*iON evo SUV*

SUMMER



# iON icept (and SUV) Vehicle Fitments

				 Compact Car	 Sedan	 Sport Sedan	 Sport & High Performance Car	 Compact & Medium SUV	 Large & Luxury SUV
Winter	 3PMSF	Non Stud	Alpin	 Winter <i>i*cept RS3</i>	 Winter <i>i*cept evo3</i>		 Winter <i>i*cept evo3 x</i>		
				 <b>ev</b> <i>ION icept</i>		 <b>ev</b> <i>ION icept SUV</i>			
Extreme Winter		Stud	Nordic	 Winter <i>i*cept iZ2</i>		 Winter <i>i*cept X</i>			
				 Winter <i>i*Pike RS2</i>		 Winter <i>i*Pike X</i>			

# Why EVs Need EV Specific Tyres

## For ICE Vehicles



### Ultra High Performance Winter Tyre

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

## Tailored Specifically for Electric Vehicles

NEW



### *iON icept*

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



## ELECTRIC VEHICLE TESTED PERFORMANCE RATINGS

	1	2	3	4	5
Handling	Grey	Grey	Grey	White	White
Grip	Grey	Grey	Grey	White	White
LRR	Grey	Grey	Grey	White	White
Noise	Grey	Grey	White	White	White
Mileage	Grey	Grey	Grey	Grey	Grey

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

# Double the Advantage

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

## UNCOMPROMISED PERFORMANCE



Snow Performance

Low Rolling Resistance / Low Noise



Features and Benefits

# Drive in Peace

## Noise Proof Technology

Electric motors are almost soundless which eventually causes the driver to hear more noise from tires. With Hankook sound absorber™, The iON icept (and SUV) offers a quiet and pleasant ride in all speed ranges.



### Minimized Tread Pattern Noise

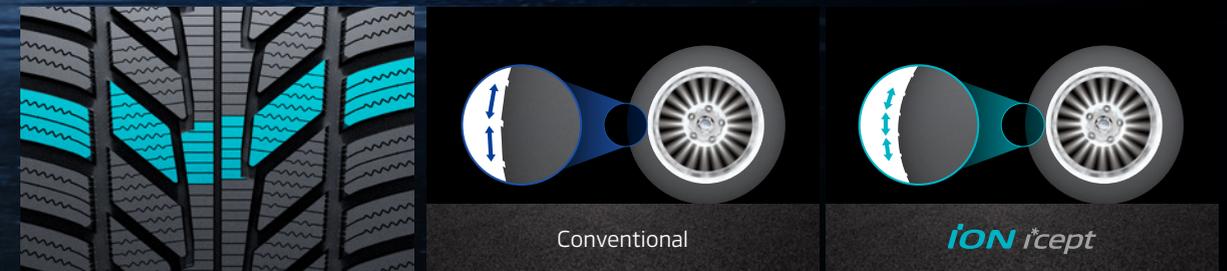
#### V-Shaped Shifting Pattern



The iON icept (and SUV)'s V-shaped pattern spreads the road noise by the alternatively shifting inside and outside blocks during road contact which also provides additional snow traction.

### Multi-Pitch Optimization

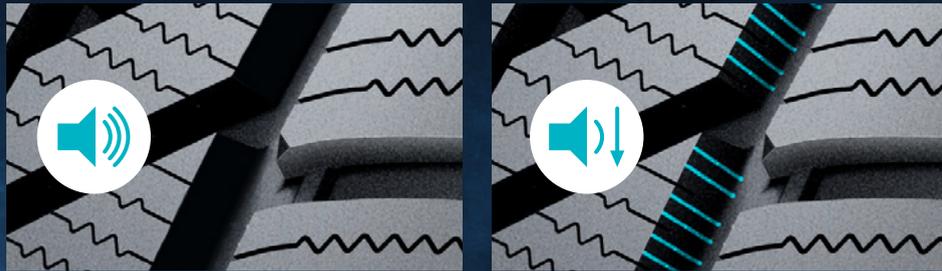
Tire noise can be drastically reduced by optimizing the pitch sequence. The iON icept (and SUV) has optimized the number and size of pitches to listen more to what matters.



## Minimized Cavity Noise

### Knurling Technology

The iON icept (and SUV)'s knurling technology applied inside the grooves effectively reduces resonance noise during road contact by narrowing the air path, without losing the groove's intended features.



# Charge Less, Cruise More

## Extended Range

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

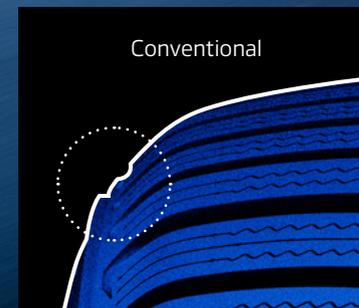


### Further Reduced Rolling Resistance



#### Optimized Curing

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



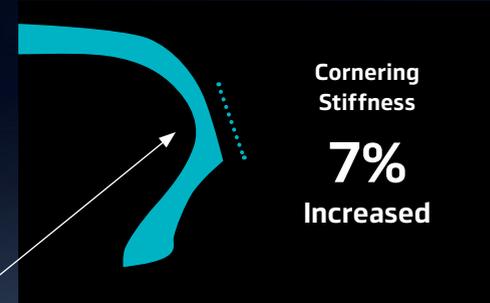
#### Aerodynamic Profile

The Aerodynamic profile of the iON icept (and SUV) reduces air / rolling resistance, also noise.

# Handle the Winter

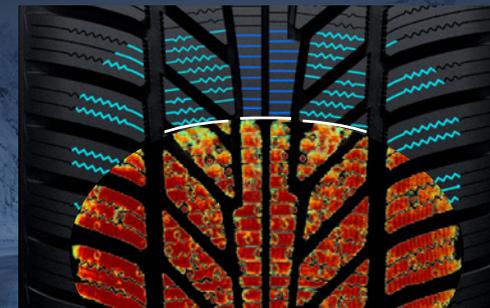
## Advanced Handling in Winter Conditions

The iON icept (and SUV) is engineered and designed to bear the high torque power of Electric Vehicles and to provide accurate handling to keep you safe in all road hazards in Winter.



### 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 7% to advance electric vehicle handling performance.



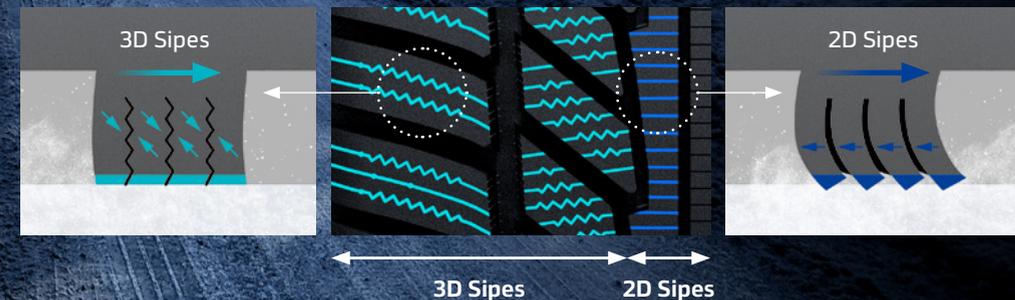
### Improved Snow Traction Optimized Sipe Angles

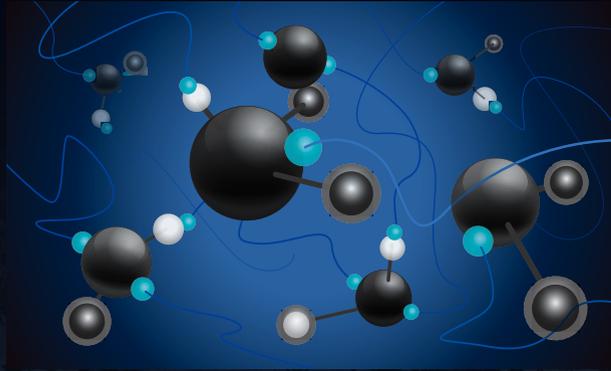
The angles of sipes on the iON icept (and SUV) are optimized to improve braking and traction on snow. The accuracy of sipe angles can significantly improve safety on snowy roads.

### Superior Handling on Winter Roads

#### Diversified Sipes

The tread pattern rigidity is optimized by applying 2D sipes in the center and 3D sipes in the blocks surrounding. This allows the iON icept (and SUV) to provide superior handling on all types of winter road surfaces.





### Advanced Snow Performance secured, adding Reduced Rolling Resistance

#### EVolution Compound

Composed with high-concentration silica and eco-friendly materials, the EVolution compound provides satisfactory mileage and further reduced rolling resistance without missing snow performance.



### Improved Wet Grip

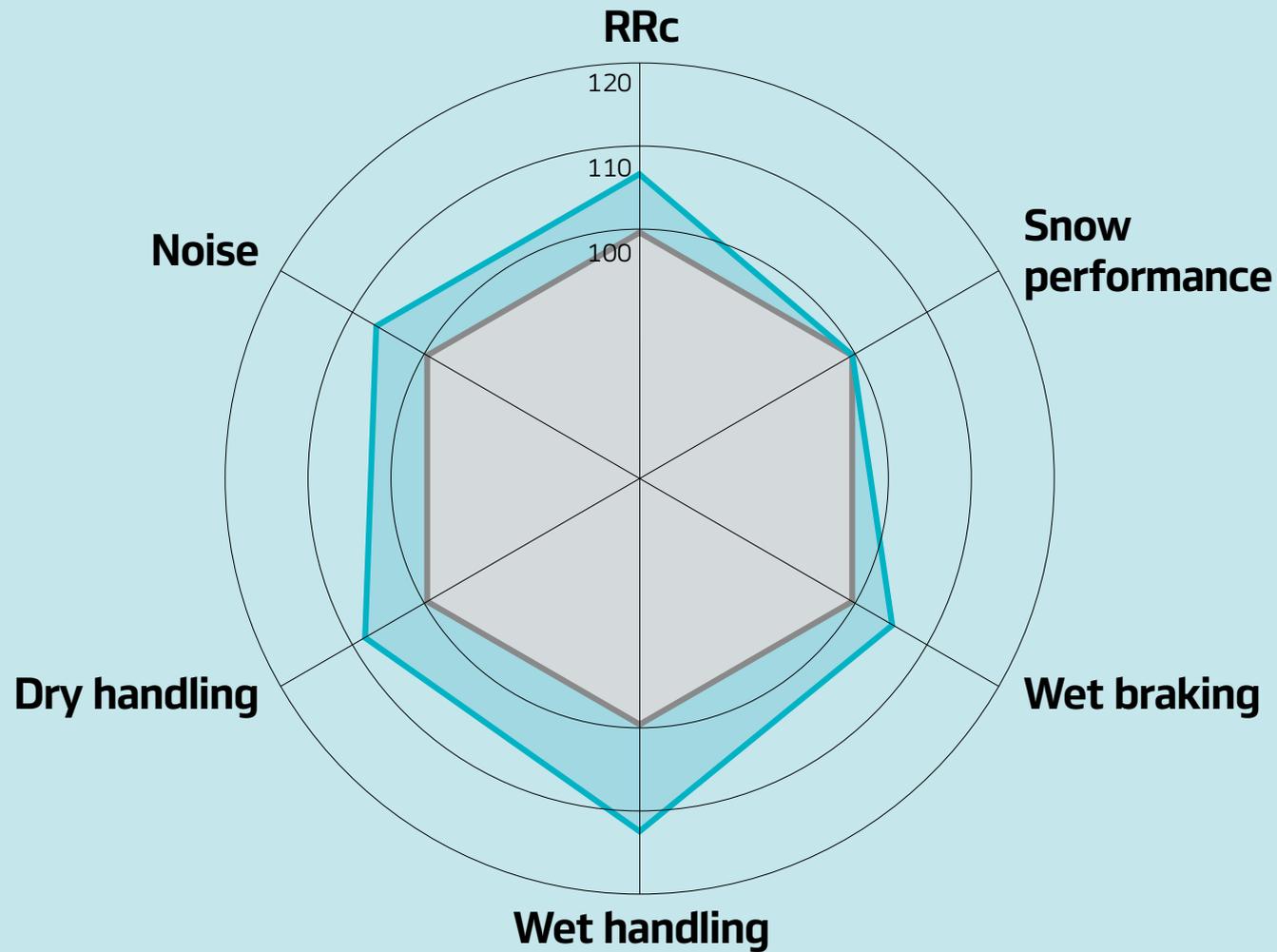
#### Water Pipe Kerf

Water pipe kerfs are placed inside the shoulder blocks for water drainage from the main groove, which maximizes grip on wet roads.



# Performance Results

FOR INTERNAL USE ONLY



- **iON i'cept**
- **Winter i'cept evo<sup>3</sup>**

The iON i'cept (and SUV) has the same level of snow performance as our ultra-high performance winter tire, the Winter i'cept evo<sup>3</sup>.

### Magazine Test Results of the Winter i'cept evo<sup>3</sup>



\* Test results based on iON i'cept versus Winter i'cept evo<sup>3</sup>. Results on road may vary.  
- Tested on Tesla Model 3  
- Tested size: 225/45R18V XL

# Tire Structure

## EVolution Compound

Composed with high-concentration silica and eco-friendly materials, provides **satisfactory mileage and further reduced rolling resistance** without missing snow performance.

## Reinforcement Belt

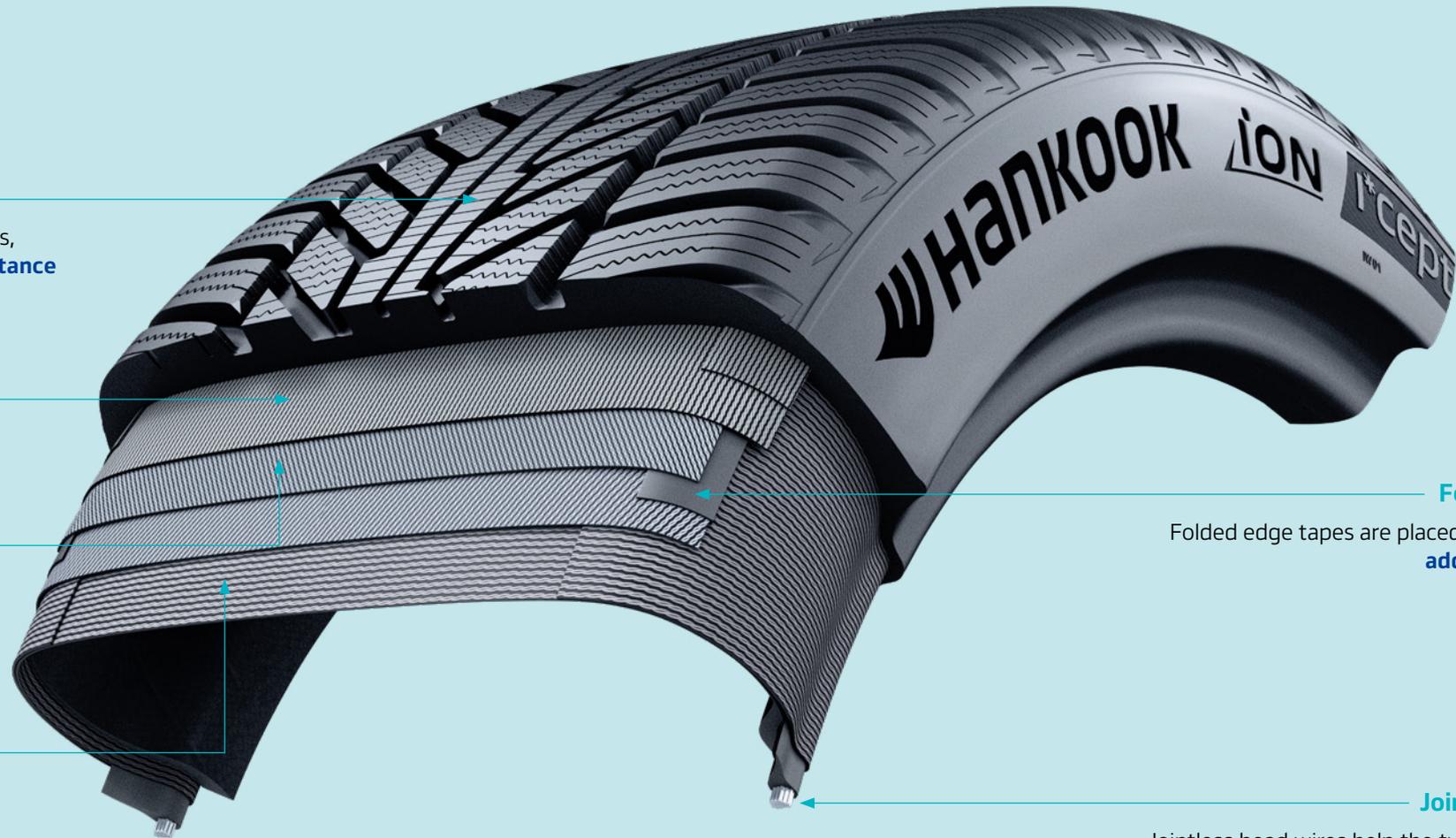
Reinforced belts are applied to **improve endurance** for high levels of initial power and acceleration.

## 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

**ION** *icept*

Inch	Series	Size	Rolling Resistance	Wet Grip	Noise Class	PBN	Available Vehicle
21	30	305/30R21V XL	C	B	A	72	Taycan
	35	245/35R21V XL	C	B	A	69	Model S
		265/35R21V XL	C	B	A	70	Model S, Taycan
20	35	235/35R20V XL	C	B	A	69	Model 3
	40	285/40R20V XL	C	B	A	72	Taycan
	45	215/45R20H XL	D	B	A	69	ID.3
245/45R20V XL		C	B	A	69	Taycan	
19	40	235/40R19V XL	D	B	A	69	Model 3
	45	245/45R19V	C	B	A	69	Model S, IONIQ6
		275/45R19V XL	D	B	A	70	Taycan
	50	215/50R19H	D	B	A	69	ID.3
18	55	225/55R19V XL	C	B	A	69	Taycan, E6
	45	235/45R18V XL	D	B	A	69	Model 3
	55	215/55R18H	D	B	A	69	ID.3, e2008, MX-30
225/55R18V		C	B	A	69	IONIQ6(New EV)	

**ION** *icept* **SUV**

Inch	Series	Size	Rolling Resistance	Wet Grip	Noise Class	PBN	Available Vehicle
22	35	285/35R22V XL	C	B	A	72	e-tron, Model X
	35	295/35R22V XL	C	B	A	72	Macan BEV
	40	255/40R22V XL	C	B	A	70	I-PACE
265/40R22H XL		C	B	A	70	e-tron	
21	35	255/35R21V XL	D	B	A	70	Model Y
		275/35R21V XL	C	B	A	70	Model Y, E6
	40	255/40R21V XL	D	B	A	70	ID.4, GV60, EQC
		295/40R21V XL	C	B	A	72	Macan BEV
20	45	235/45R21V XL	C	B	A	69	ID.4, EQC
		255/45R21V XL	C	B	A	70	Macan BEV
	40	265/45R21H XL	C	B	A	70	e-tron Sportback
		255/40R20V XL	C	B	A	70	Model Y
19	45	255/45R20V XL	C	B	A	70	e-tron, Model X, ID.4, IONIQ 5, EV 6
		285/45R20H XL	C	B	A	72	e-tron
	50	235/50R20V	C	B	A	69	e-tron, ID.4, EQC
18	50	245/50R20V XL	C	B	A	69	I-PACE
		255/50R20H XL	C	B	A	70	e-tron Sportback
	55	235/55R20V XL	C	B	A	69	Macan BEV
19	45	255/45R19V XL	C	B	A	70	Model Y
	50	255/50R19H XL	C	B	A	70	e-tron, ID.4
	55	235/55R19V XL	C	B	A	69	e-tron, ID.4, IONIQ 5, EV6, GV60
255/55R19V XL		C	B	A	70	e-tron Sportback, Macan BEV	
18	60	235/60R19V XL	C	B	A	69	Macan BEV
	65	235/65R18V XL	C	B	A	69	ID.4
18	60	235/60R18H	C	B	A	69	ID.4
	65	235/65R18V XL	C	B	A	69	I-PACE



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