

hankook
driving emotion



KINERGY 4s
Multi-performance harmony



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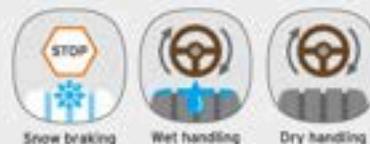
KINERGY 4s



Technology icon



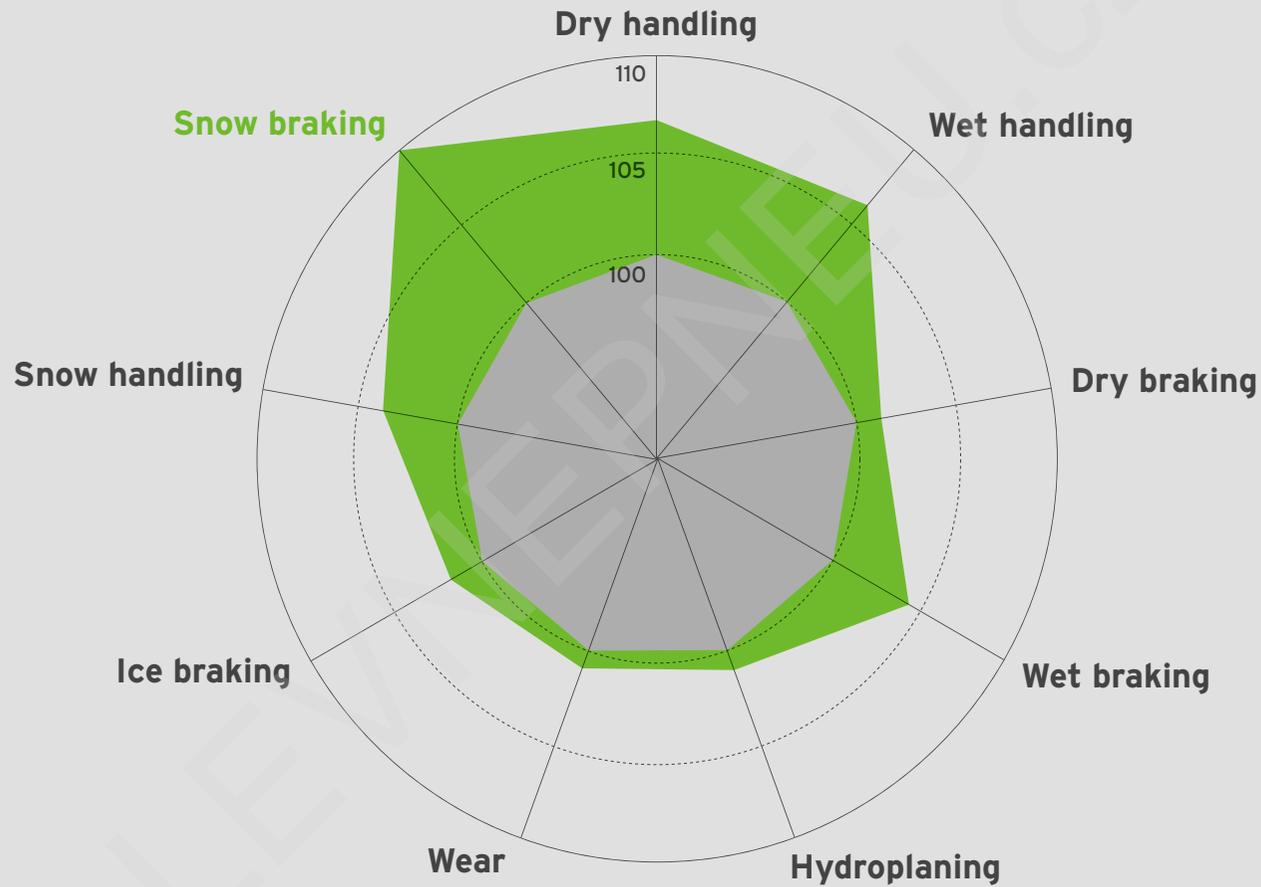
Performance icon



Technical profile

Speed symbol : H, V, T
Tread width : 155~255
Series : 40~70
Rim diameter : 14~18

■ Conventional
■ **KINERGY 4s**





10% reduced braking distance on snow!
6% improved wet and dry handling!

Multi-performance harmony for total balanced all season driving.


**Wet
performance**

+

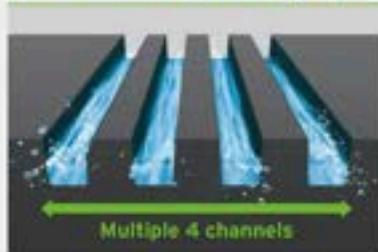

**Snow
performance**

+


**Dry
performance**

Multi-performance harmony for 4 seasons

Broad-lateral grooves
(Broadleaf tree style)



Summer sipes

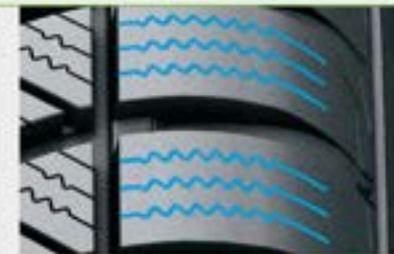


Summer

Winter



Winter sipes



Needle-lateral groove
(Needleleaf tree style)



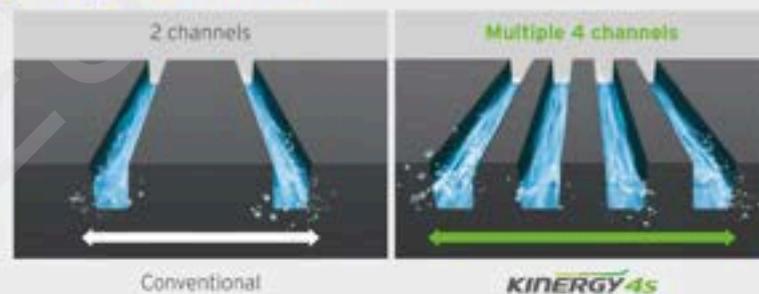
Snow-pick traction
(Powerful snow performance)

Broad-lateral groove

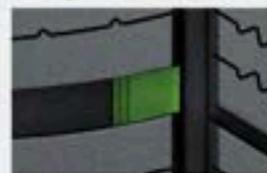
The step tie-bar and aqua slant is formed on the basis of its broad lateral grooves. Reduced ground resistance enables a smoother flow over water and snow. Enhanced lateral grooves ensure the best snow traction performance.



A Multiple 4 channels



B Step tie-bar



- Application of a stairway-shaped tie-bar enables the tread wear level to be checked.
- Reduced block movement establishes strengthened block stiffness and improved driving safety.

C Aqua slants



- Provides the ultimate performance in wet conditions.

Pickel-snow traction and snow platform mark

The ice axe inspired V-shaped lateral groove offers effective driving and cornering capabilities on both ice and snow.

Snowflake shaped shoulder markings indicate the position of winter Tread Wear Indicators (TWI).

They provide greater safety and performance, letting you know when a tire's tread depth is no longer beneficial for performance on snow.

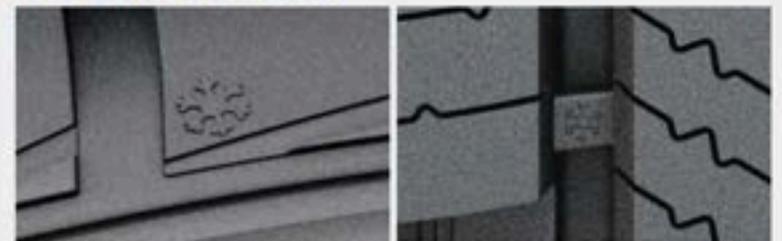


D Snow-pick traction

Powerful snow performance by optimized lateral groove angle.



E Snow platform mark



Shoulder

Tread

Design feature

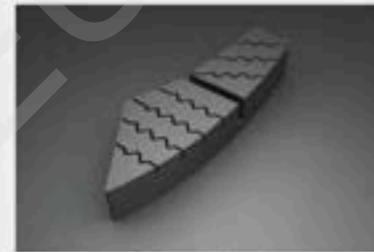
Needle

Main lateral grooves with a cross-over angles offer high traction and braking performance, optimised for various road conditions.

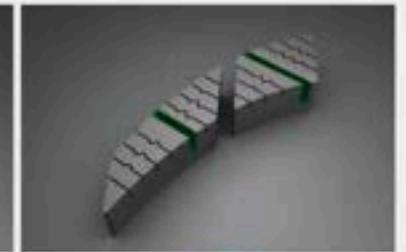


F Needle-lateral groove

Powerful carving edge.



Conventional



KINERGY 4S

2 Different 3D sipes

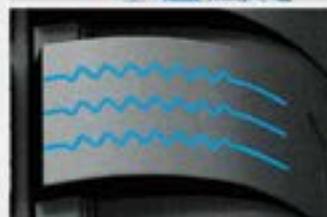
The application of two different sipes allows the tire to possess high summer capabilities on the outside and winter capabilities on the inside. A 3D sipe locking system progressively supports the tire even in poor road conditions by strengthening block stiffness.



G Winter sipes

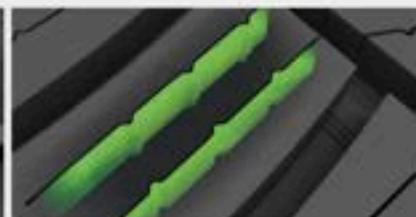


Ensures strong winter performance on ice and snow.



H Summer sipes

Ensures strong summer performance in wet and dry conditions by strengthening the outer tread block stiffness.



Tire structure



Adoption of high-hardness bead filler

Improved handling and steering response.

Ultra high strength bead wire

Improved uniformity and durability of the bead position.

High grip silica compound

Improved snow / wet traction and lowered rolling resistance.

Jointless full cover reinforced belt

Ideal tread strength.

Wide 2 steel belt layer

Ensures optimal tread stiffness and improves handling performance.

Equilibrium polyester carcass line

Enhanced sidewall stiffness and durability.

Compound technology

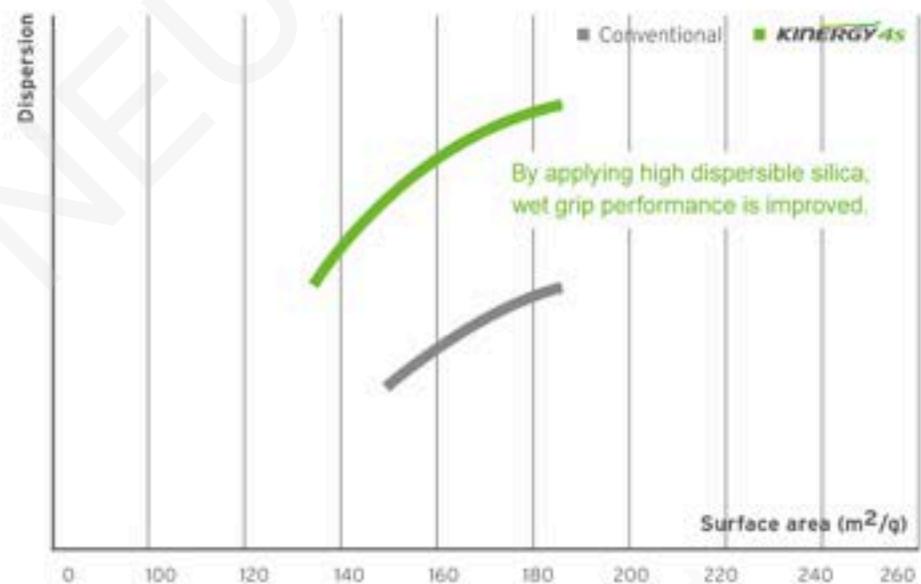
The application of nano-sized high dispersible silica improves wet grip and wear-resistance capabilities.

HD Silica compound



Conventional

HD silica



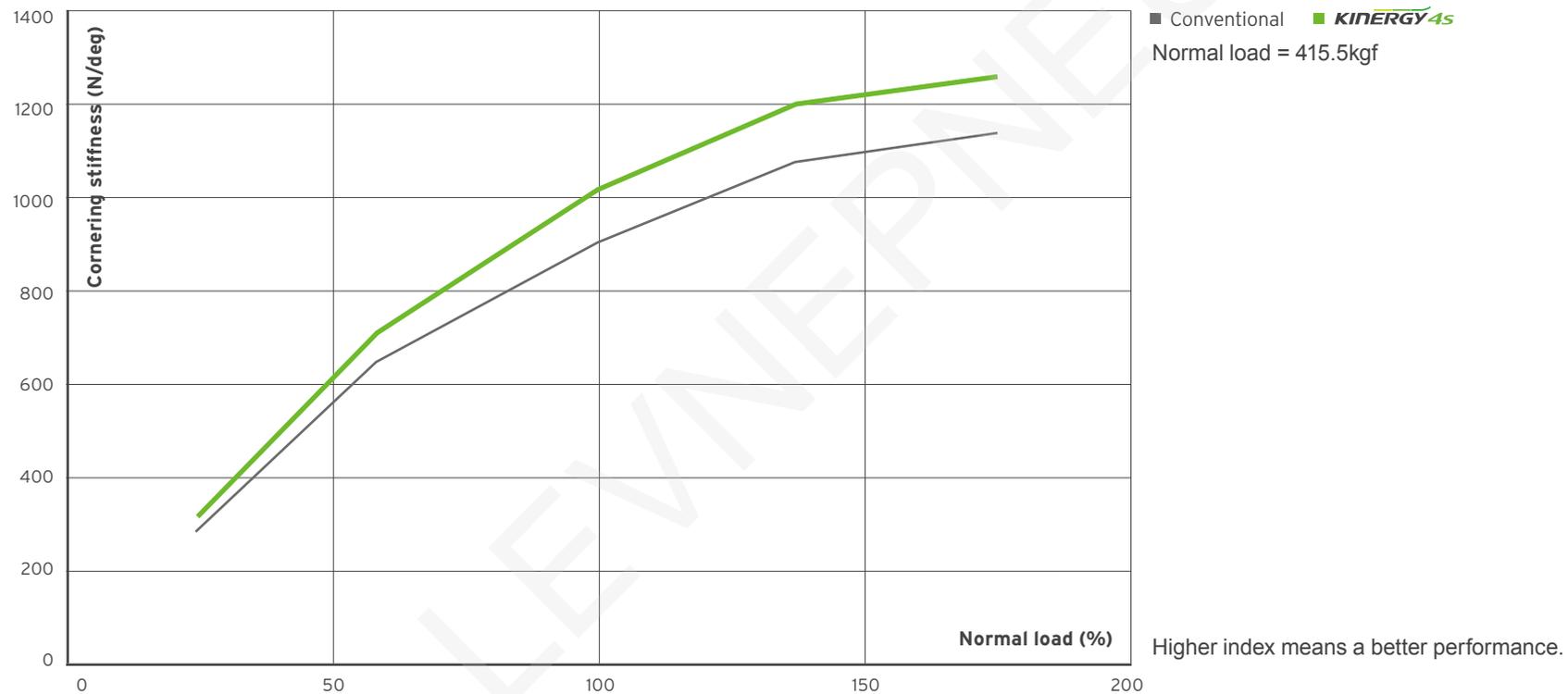
Dry and wet handling

Reinforced belt and bead sections of the new H740 improves cornering force according to the weight shift.

→ Secures improved cornering grip and outstanding handling performance.

Cornering stiffness per weight

Force and moment



Ice and snow performance

Improved traction due to a greater number of tread blocks.



Increased pitch numbers and block edge length

Helps effectively bite in to the snow which improves the traction performance of the tires.

High density sipe

Improves traction performance in icy conditions by increasing the contact area between the sipe and road.

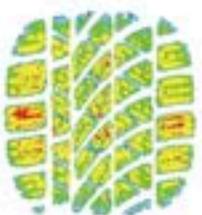
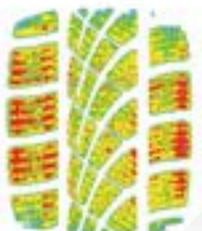
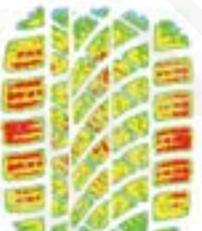
Size : 195/65R15H

Pitch numbers are increasing by 6 percent depending on tire size.(Max. 70 Pitch)

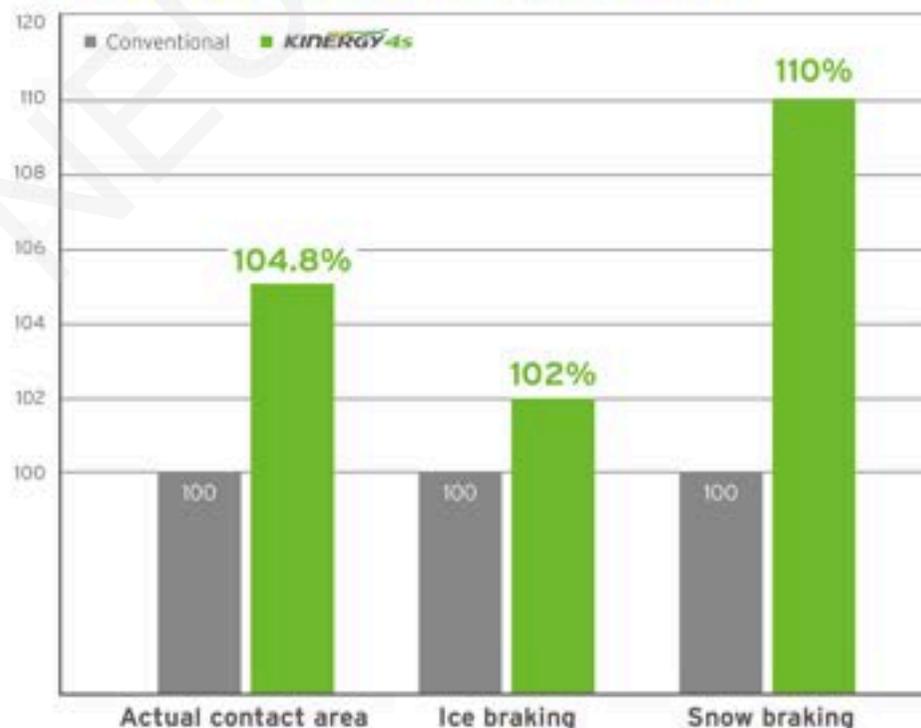
Ice and snow performance

Compared to conventional tires, the contact patch area of the Kinergy 4S is enlarged by as much 5%. This increases the braking performance on icy and snowy roads.

Footshape

	Items	Conventional	KINERGY 4S
Acceleration	FootShape (2.1kg / cm ²)		
	The actual contact area	100%	104.8%
Braking	FootShape (2.1kg / cm ²)		
	The actual contact area	100%	101.7%

The actual contact area and performance



• Higher index means a better performance.



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