SMART WORK DM09

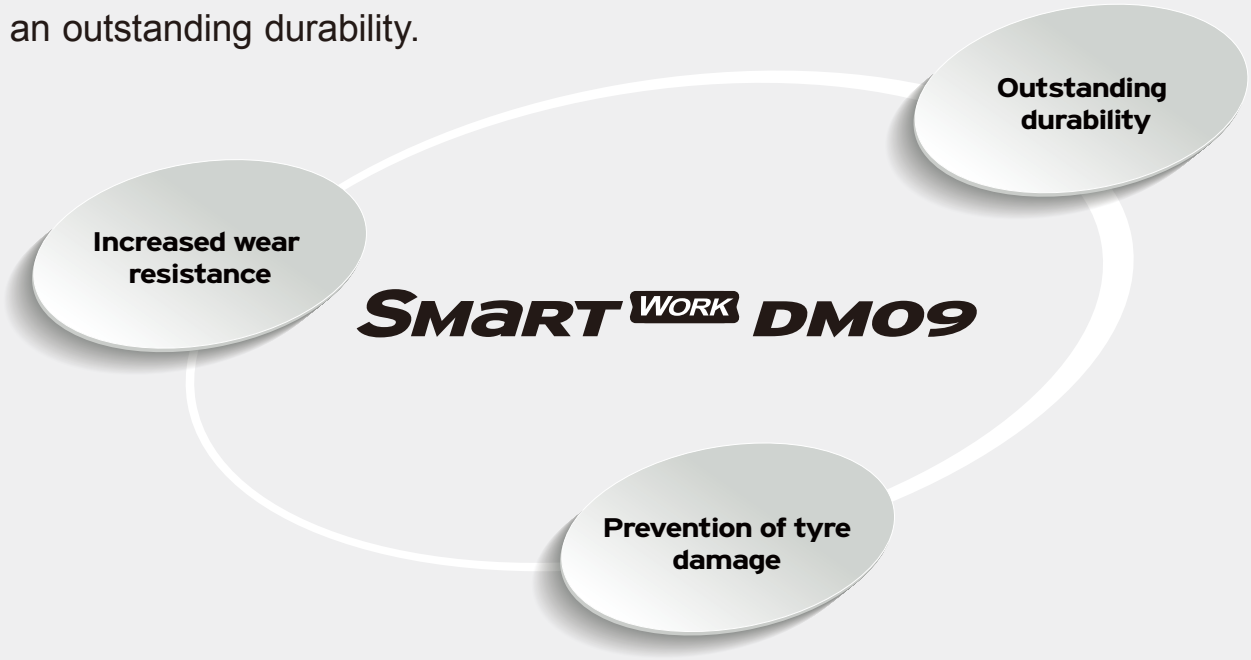
Designed for mixed usage and enhanced on/off performance

Contents

M+S

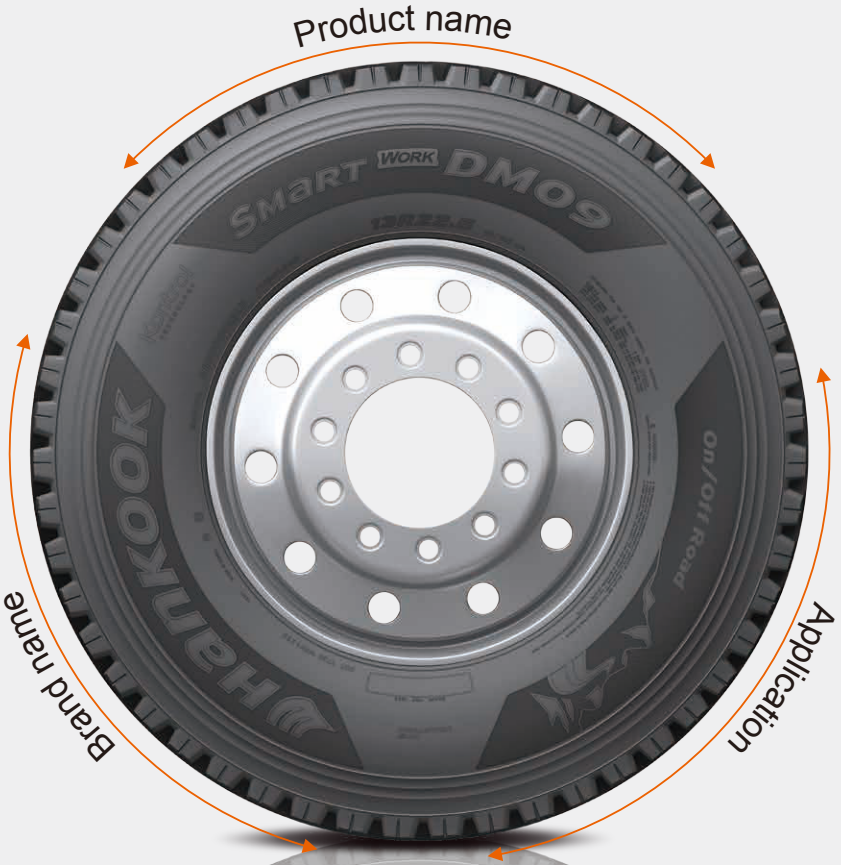
Experience the new highly valued SMART WORK DM09

- The first directional type tyre for on and off road usage.
- Exellent on and off road performance.
- Increased resistance to cuts and chips on the tread and sidewalls.
- Adopted new technology for less stone retention.
- Optimised casing design ensures an outstanding durability.



Designed for mixed usage and enhanced on/off performance.

M+S



Adopted new sidewall design

Positioning map

M+S

Designed for mixed usage and enhanced on/off performance.

SMART WORK DM09

M+S

Recommended vehicles and positions

Recommended position

Designed for mixed usage and enhanced on/off performance.

Optimised pattern design

M+S

The directional pattern is adopted for excellent handling. The best traction performance is provided even in wet and muddy conditions.

The interblock tie-bar at the centre guarantees outstanding straight driving performance and impact dispersion for blocks, thereby improving durability.

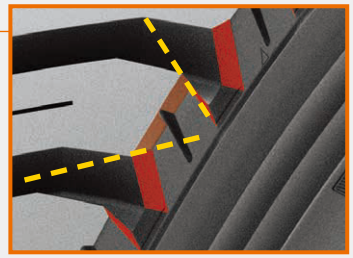
Designed for mixed usage and enhanced on/off performance.

Optimised pattern design

M+S

The improved groove shape design ensures tyre reliability by effectively discharging stone chips.

The open shoulder design increases soil discharge and drainage performance.



The tapered block design ensures a flexible response to lateral impact.

Kontrol Technology

Kontrol
TECHNOLOGY

As Hankook Tire's own technology philosophy and principle, Kontrol Technology is applied from the research to the development and production stages.

"K" in Kontrol stands for Kinetic or movement. It represents Hankook Tire's technology philosophy, i.e., the tyre movement can perfectly control the interaction between the driver and the vehicle, between the vehicle and the road and between the road and the driver.

In addition, it represents the technology principle of controlling performance so that the basis for major quality valuation such as riding, handling, power, stability and environment could be applied optimally for the customer's benefit.

The e-cube MAX series is an example of tyres which embody Kontrol Technology.

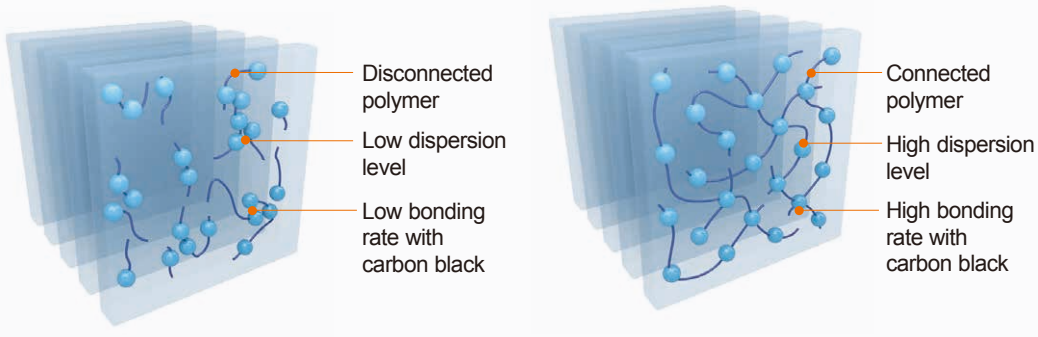
Innovative mixing system

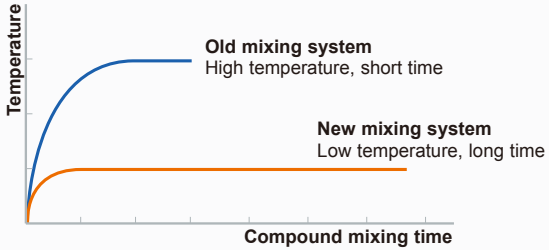
M+S

Larger molecular weight by minimising breakdown of polymer chain.

Increased strength and decreased heat generation.

Longer mileage and improved fuel efficiency.





The Innovative Mixing System (IMS) minimizes the breakdown and oxidation of polymer chains and has higher dispersion degree of carbon black. These effects of IMS help to strengthen the bonding force between the carbon black and rubber to ensure longer mileage and to lower the heat generation of compounds for improved fuel efficiency.

▶ **IMS ensures long mileage and fuel efficiency.**

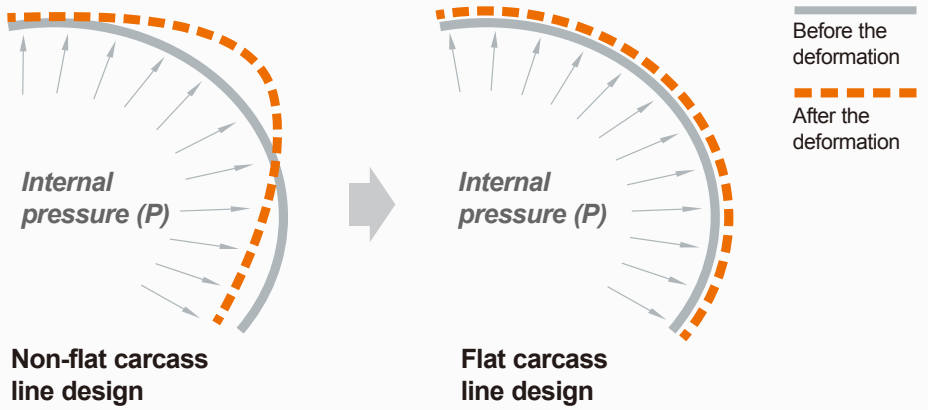
Improved profile design - SCCT Technology

M+S

Keeping the carcass profile
in equilibrium (stable) state.

Uniform dispersion of internal force on
carcass minimised mobility of belt/bead.

**Improved durability and
improved retreadability.**



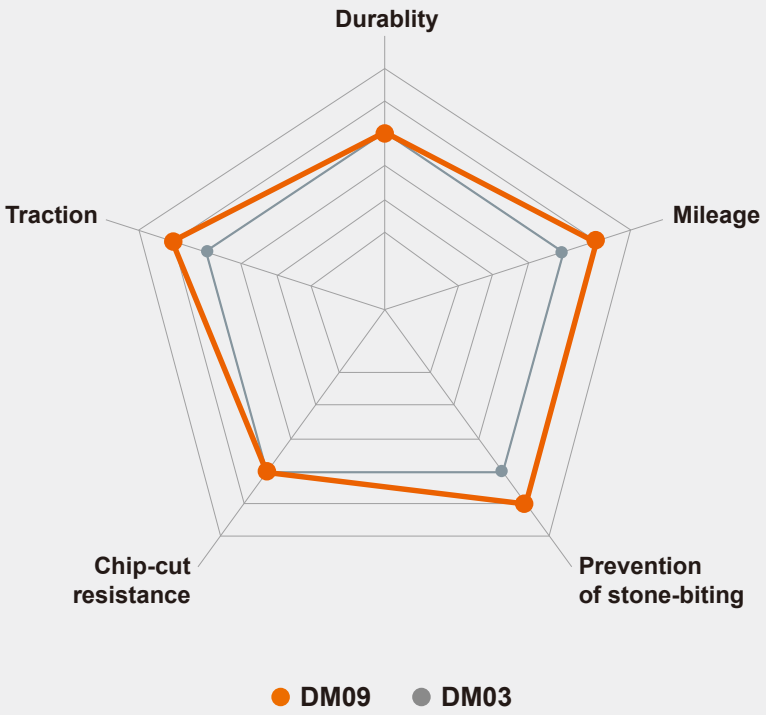
SCCT Technology is designed for constant profile deformation. If the carcass profile cannot be kept constant, the internal force on the carcass will be concentrated on a specific point (belt edge or carcass turn up edge). In contrast, SCCT technology controls the dispersion of internal force for better durability.

SCCT allows Hankook Tire to develop tyres by balancing optimum stiffness with contact shape, improving performance, safety, cornering, braking, and durability.

Designed for mixed usage and enhanced on/off performance.

Performance overview

M+S

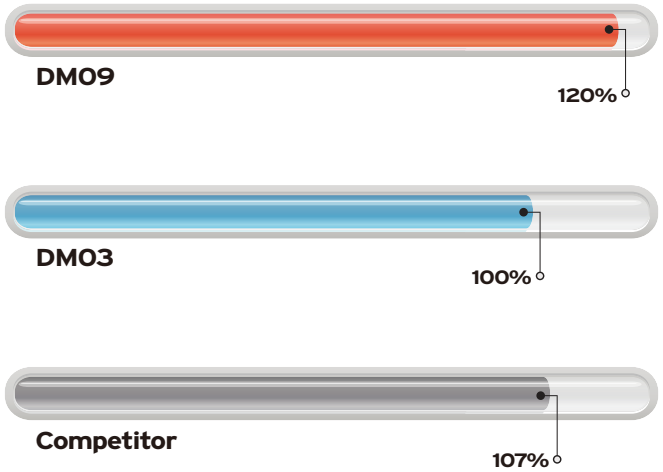


Division	DM03	DM09
Pattern		
Groove depth (mm)	19	23
Tread width (mm)	243	256
Changes	• deeper grooves / wider tread • Improved profile for increased durability	

Mileage test

M+S

Test results



Usage & Route

Sand and gravel driving route; fleet located in the middle of South Korea.

Vehicle & Position

25~27 tonne dump truck

Who should give the information?

Tyre suppliers (manufacturers or importers into Europe):

- For all tyres within the scope, the information must be available in technical promotional literature (leaflets, brochures etc), including the manufacturer website.
- For passenger and light truck tyres, the suppliers have a choice of placing a sticker on the tyre tread or a label accompanying each delivery of batch of tyres to the dealer and end user.

Tyre retailer:

- Must ensure tyres which are visible to consumers at the point of sale carry a sticker or have a label in their close proximity which is shown to the end user before the sale.
- Must give the information during the purchase process when the tyres offered for sale are not visible to the end-user.
- Must give the information on or with the bill.

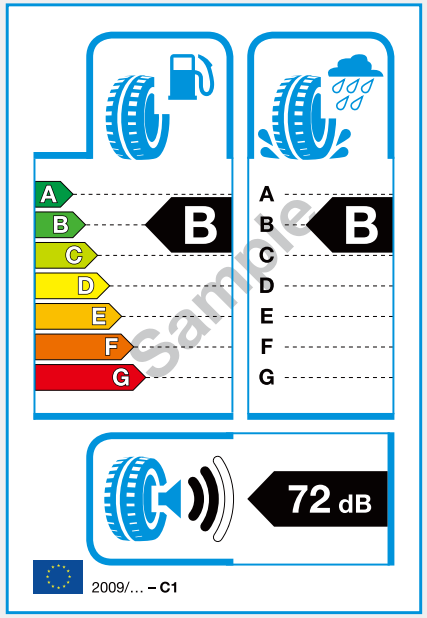
Car manufactures:

- Must declare the tyre wet grip and fuel efficiency class and external rolling noise measured value of the tyre type(s) fitted on the vehicle as well for tyres that are offered in option, if size or tyre is different from those fitted normally on the basic vehicle.
- As soon as the customer is given a choice either in the size / type of tyres fitted on the basic rim or a choice of rim and tyre size, the labelling information must be provided before sale.
- There might be no obligation to provide information only in those cases where there is a choice of rim with tyre types and sizes that are identical to those which are sold automatically with the new vehicle.

Actual fuel saving and road safety depend heavily on the behavior of drivers and in particular the following:

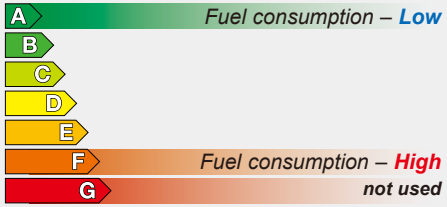
- Eco-driving can significantly reduce fuel consumption,
- Tyre pressure should be regularly checked to optimise wet grip and fuel efficiency performance,
- Stopping distances should always be strictly respected.

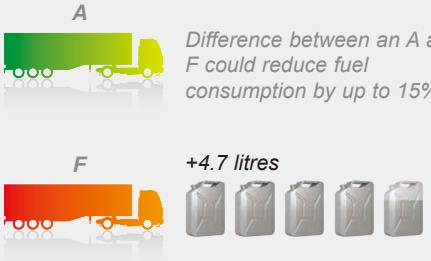
Who should give the information?



Fuel efficiency
rolling resistance (R.R)

Tyres account for 20 ~ 30 % of the fuel consumption of vehicles. A reduction of the rolling resistance of tyres may therefore contribute significantly to the energy efficiency of road transport and thus to the reduction of emissions.

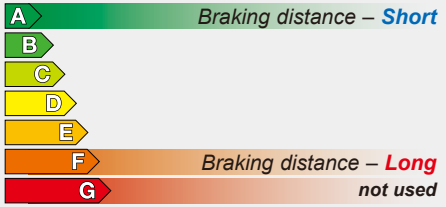




※ 100km driving (32.3L/100km)

Wet grip
braking performance

Wet grip indicates the braking performance of tyres on wet road surfaces and is related to the safety performance of vehicles.



※ Wet braking distance at 80 km/h

Noise level
exterior noise

The exterior noise levels are measured in decibel (dB) and are indicated in three categories. More black bars mean that the tyres create more road noise.

Wave1 : ***Low noise tyre***

Wave2 : ***Average tyre***

Wave3 : ***Noisier tyre***


HANKOOK
driving emotion