

SMART [FLEX] AH31 SMART [FLEX] DH31

All-season tyres designed for multi-purpose application











## Hybrid segment tyres for multi-purpose application

Adopted new technology and design provide increased safety with an economic advantage to the customer.

#### • Reduced braking distance • Cut CO<sub>2</sub> emission • Fuel efficiency • Low cost/km • Improved driving condition Reliable retreadable casing Increased load capacity Durable tyre technology • Long mileage

Optimised tyre solution

SMART LES AH31 SMART LES DH31













# Positioning Map







# Hybrid segment tyres for multi-purpose application



Regional

Long haul





# SMART LES AH31







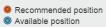
## Recommended / Available vehicle & position











SMART AH31 SMART DH31



# SMART LEEN DH31







## Recommended vehicle & position









Recommended position

SMART AH31 SMART DH31



# SMART LEEX AH31









#### Wide tread and shoulder design

Longer mileage and better handling performance.

### Multi 3 dimensional kerf design

Better traction, increased mileage, controlled tearing and wearing with less irregular wear.

#### Tread Wear Equalised Stepper (T.W.E.S.)

Controlled tearing and wearing.

#### 3PMSF & M+S marking

In all seasons; dry, wet and snow.



## SMART LEE DH31









#### 3 dimensional kerf design

Better traction, increased mileage and reduced irregular wear.

### Combination structure of rib and 6 angle block pattern

Improved grip, increased mileage and enhanced handling performance.

#### Self-regenerating kerfs (S.R kerf)

Controls tearing and wearing of tread with hidden grooves whilst maintaining traction at the end of the groove wear.

#### 3PMFS & M+S marking

In all seasons; dry, wet and snow.



# Kontrol Technology











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

The "K" in Kontrol stands for Kinetic or movement and it represents Hankook Tire's technological philosophy. The tyre movement can perfectly control the interaction between the driver and the car, between the car and the road, and between the road and the driver.

In addition Kontrol Technology represents the technological principles of controlling performance. This is the basis for a major quality evaluation including factors such as ride, handling, power and stability which could be applied optimally for the customers' benefit. As a result, Hankook Tire's Kontrol Technology is proven to be more environmentally friendly.



### 3 Dimensional Kerf







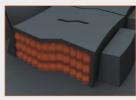
# SMART LEEN AH31











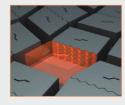
Controlled tearing and wearing

Improve mileage.

Full depth kerf applied

Keeps good traction during whole life.

### SMART LES DH31



3D Kerf Lateral / tangential direction.

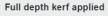








Controlled tearing and wearing Improve mileage.



Keeps good traction during whole life.





## T.W.E.S. / S.R Kerf







# SMART LEEN AH31

T.W.E.S.: Tread Wear Equalised Stepper







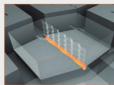
Controlled tearing and wearing

→ Improvement one-sided wear.

# SMART LES DH31

### S.R. Kerf: Self-regenerating kerfs





#### S.R Kerf

Venturi-shape from Hankook's Patent

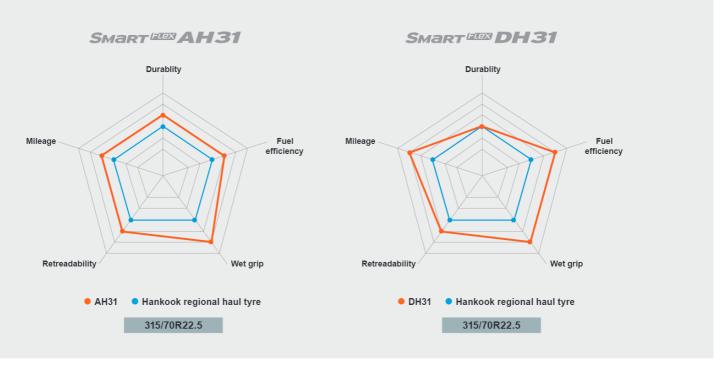
- → Keep good traction during the whole life.
- Protect tearing at the edge of 3D-Kerfs.

*₩напкоок* 

## **Performance Overview**





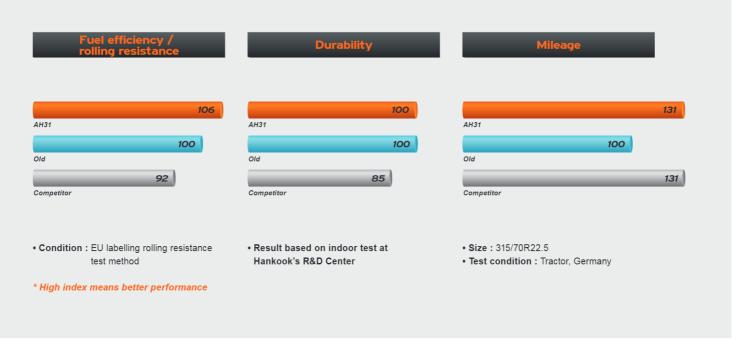




# SMART LEEN AH31



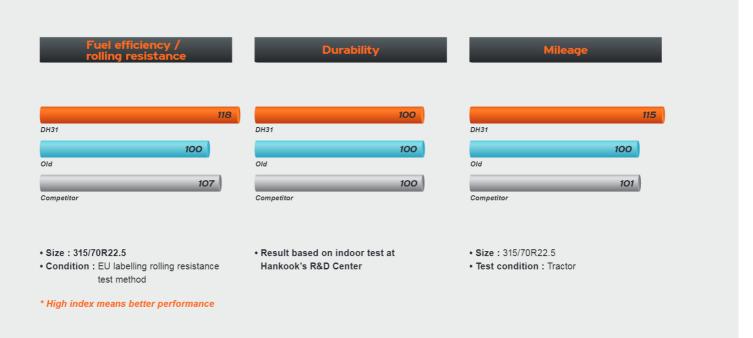






# SMART DH31







### 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 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 are offered for sale hat are not visible to the end-user.
- Must give the information on or with the bill.

#### Car manufactures:

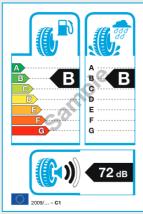
- Must declare the tyre wet grip, fuel efficiency class and external rolling noise when different from those fitted normally on the basic vehicle.
- As soon as the customer is given a choice either in the size / type of tyres fitted on the basic rim or a choice of rim
  and tyre size, the labelling information 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.

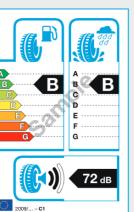
#### Actual fuel saving and road safety depend heavily on the behavior of drivers, and in particular the following:

- · 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.



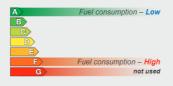
### Who should give the information?







Tyres account for 20  $\sim$  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.





+4.7 litres



\* 100km driving (32.3L/100km)



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

Braking distance - Short

Braking distance – Long not used



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



(Noisier tyre



\* Wet braking distance at 80 km/h

напкоок

