Michelin Techtalk-Truck
Edition 4

Ask The Michelin Man

MICHELIN fuel economy leader

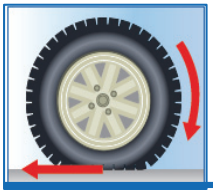
In recent years, the major tyre manufacturers have been developing fuel efficient tyres.

However, beyond the trade names of these products that often have an ecological dimension, the benefits claimed do not always live up to expectations…

➢According to Michelin, the ideal tyre should achieve an optimal balance between all performance criteria despite the fact that in some cases these criteria may be associated with conflicting demands.

➢Recent tests carried out by independent bodies have once again confirmed Michelin's market lead in terms of fuel economy.

Performance balance

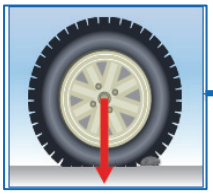


Rolling resistance

➢ **Rolling resistance**
has a direct impact on fuel bills and consumption (and hence a haulage company's profitability) and the environment.

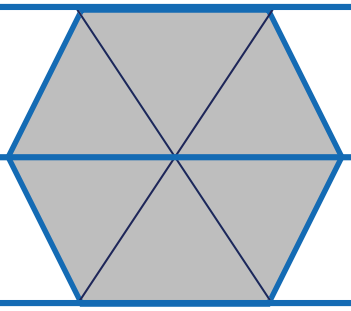
➢ **Comfort**
the tyre's capacity to absorb road surface irregularities and reduce noise generation to a minimum.

Comfort



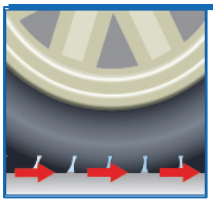
Endurance

➢ **Endurance over time to stresses and load**
This optimises the retreading capacity which has a direct impact on profitability and the environment.



➢ **Tyre behaviour**
Steering, precision, responsiveness, etc.

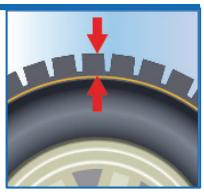
Handling



Grip

➢ **Grip, synonymous with safety**
Is a crucial factor in ensuring transmission of the engine/brake forces and maintaining the vehicles stability.

➢ **Good mileage performance**
Is a major expectation since it can be easily measured and has a direct impact on profitability and the environment



Wear

MICHELIN
A better way forward

MICHELIN X® ENERGY™ SAVERGREEN
The global solution for more than just fuel savings

In 2010, **MICHELIN launched a new generation** of innovative fuel efficient tyres for all tractor and trailer axles,
MICHELIN X® ENERGY™ SAVERGREEN reduces fuel consumption over time.

Tests to prove it:

MICHELIN: 80/65 series fuel savings leader

Test carried out at the request of MICHELIN and operated by the independent body TÜV SÜD Automotive(1) in Germany in July 2010 on a motorway using new tyres:

- DAF XF 105.460 Euro 5 tractor with automatic gear box.
- Kröne 3-axle trailer.
- Fuel consumption measured using a flow meter.

Automotive

- Tyre dimensions: tractor 315/80 R 22.5 and trailer 385/65 R 22.5.
- Total rolling mass = 39.8 t.

Tyres tested were switched between vehicles for MICHELIN tyres and the 4 competing brands with their respective long-distance tyre models available on the market in July 2010.

•MICHELIN X® ENERGY™ SAVERGREEN XZ / XD / XT
•BRIDGESTONE / GOODYEAR / CONTINENTAL / PIRELLI

Result: **- 1,7 L / 100 km(2)** fuel consumed with **MICHELIN X® ENERGY™ SAVERGREEN**

(1) The full report of study No. 76243482 carried out by TÜV SÜD Automotive in July 2010 is available from Michelin truck marketing department.
(2) Compared to the average consumption figures for the competing brands tested, MICHELIN outperformed every competitor.

MICHELIN: 70/55 series fuel savings leader

Comparative test carried out in May 2010 on a motorway with new tyres by the Transporte Mundial journal(3) between Irun (Spain) and Orleans (France) for the MICHELIN 70 / 55 series fuel savings leader test:

- Mercedes Actros Tractor 1844 Euro 5 with automatic gearbox.
- Schmitz 3-axle trailer.
- Fuel consumption measured using flow meter.

- Tyre dimensions: tractor 315/70 R 22.5, trailer 385/55 R 22.5.
- Total rolling mass = 38.4 t.

Periodically, tyres were switched from vehicle to vehicle to minimise potential variables:

- **MICHELIN:** X® ENERGY™ SAVERGREEN XZ / XD - XTA 2 ENERGY™
- **BRIDGESTONE:** R249 / M749 / R168
- **PIRELLI:** FH88 Energy / TH88 Energy / ST01 ecoimpact

Result: **- 1,9 L / 100 km(2)** fuel consumed with **MICHELIN X® ENERGY™ SAVERGREEN**

(3) Full test publication in No. 276 of the Transporte Mondial journal of July 2010.
(4) Compared to the average consumption figures for the competing brands tested, MICHELIN outperformed every competitor.

MICHELIN
A better way forward