Can tyres be both Greener and Safer?

572

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Tyre Performance

192

Independent Tests

New Tyre Regulations



What is a tyre's contribution to fuel consumption?

Tyres are responded for 20% of the fuel of a car (due to receive esistance)

- Even more when under-inflated





To reduce fuel consumption -> less heat generation













Technology behind the new MICHELIN Energy Saver

Rubber Compound composition

Latest generation Full Silica compounds

Technology behind the new MICHELIN Energy Saver

Mixing process

- Mixing process exclusive to Michelin
- Perfect control of the mixture consistency

Technology behind the new MICHELIN Energy Saver

Tyre weight reduction

800g lighter than the previous generation of Michelin Energy

less fuel consumption

The performance compromise

MICHELIN GREEN X marking

Identifies Michelin fuel efficient tyres

Present on most new Michelin Car, Van & Cold Weather tyres

No compromise in safety and longevity

The Proof

Independent Tyre Tests 2009

Tyre life Fuel economy (Narbonne)

Wet braking

TüV SüD results for MICHELIN Energy Saver wet braking tests

DEKRA results for MICHELIN Energy Saver fuel consumption

TIRE LONGEVITY AND FUEL CONSUMPTION TESTS

RESULT OF TIRE SEGMENT 195/65 R 15 H : FUEL CONSUMPTION TEST

Fuel consumption calculation determined from volume consumed by each set of tires during 10 000 km driven for the test.

DEKRA results for MICHELIN Energy Saver wear tests

TIRE LONGEVITY AND FUEL CONSUMPTION TESTS

Treadlife extrapolation (after a test mileage of 10 000 km) based on the most worn groove on both front tires – Base 100

New European legislation on Tyre Performance

There are two new European regulations about to be introduced:

- Regulation 661

- draft Regulation 348

1. Safety

2. CO₂ Emissions

3. Environment

1. Safety – Wet Grip

2. CO₂ Emissions

3. Environment

1. Safety – Wet Grip

2. CO₂ Emissions – Rolling Resistance

3. Environment

1. Safety – Wet Grip

2. CO₂ Emissions – Rolling Resistance

3. Environment – Noise

New Tyre Regulations (Reg. 661)

- Starting from 2012 tyres sold in Europe will have to conform to new regulations on:
 - Wet Grip
 - Rolling Resistance
 - Noise
- Maximum levels of Rolling Resistance and Noise will be imposed
 Minimum levels of Wet Grip will be imposed
- Michelin fully supports this initiative which is linked to the improvement of the environment and to road safety
- Car, van and truck tyres only

New Tyre Regulations (draft Reg. 348)

- Discussions are also underway on how to inform customers of the relative performance of all the tyres on the market
- A grading system is proposed, similar to that applied to electrical appliances (e.g. refrigerators). 'A' being the best down to 'G' being the worst
- Customers will be informed in a variety of ways. E.g. manufacturer's documentation, websites, labelling ...

Proposed Tyre Label (draft Reg 348)

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Summary

- Michelin is making Greener tyres and will never compromise on safety
- Use of innovative technologies is the only way to optimise the key tyre characteristics at the same time.
- This benefits the end user in terms of added value
- Starting from 2012, tyres sold in Europe will have to conform to Regulations on, wet grip, noise and rolling resistance
 - Grading of tyre performance in each of these three categories will enable more informed choice

Can tyres be both Greener and Safer?

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Thank you for your attention

