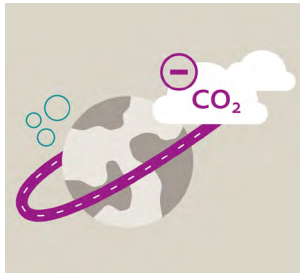
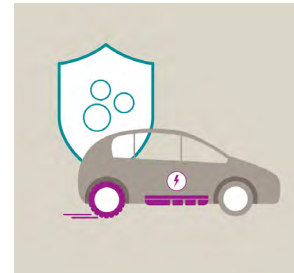


THE SILICA/SILANE SYSTEM CONTRIBUTES TO FUEL-SAVING TIRES

ULTRASIL® 



HOW TIRES HELP REDUCE CO₂ EMISSIONS FROM ROAD TRAFFIC

Environmental and climate protection are driving the development of modern tires. Today, road transport accounts for approximately 15% of global CO₂ emissions. That's why vehicles need to consume less fuel and thus emit less carbon dioxide. The components of the tire tread are key to driving this transition.

ULTRASIL® LOWERS ROLLING RESISTANCE BY UP TO 35%

ULTRASIL® rubber silica combined with silanes from Evonik substitutes carbon black as reinforcing filler in tire tread rubber compounds. ULTRASIL® active filler in combination with the silane Si 363™ can lower rolling resistance by up to 35% and significantly improve wet grip, all while retaining the same good wear values, compared to conventional tires with carbon black as a reinforcing filler.

By lowering the rolling resistance the Silica/Silane System can reduce both the fuel consumption of combustion engines and extend the range of electric vehicles by up to 8%, as performance tests have shown. As the transition to electromobility progresses, greater mileage ranges are crucial for broad public acceptance of fully electric passenger cars.

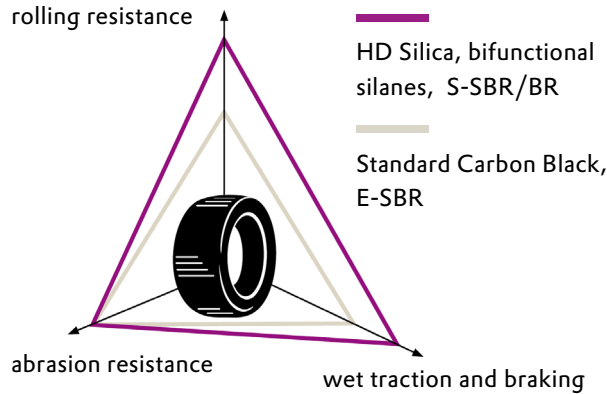
Tires

Evonik's Silica/Silane reinforcing filler system enhances performance, durability and safety of tires: It improves wet grip and at the same lowers rolling resistance, which can reduce fuel consumption by 8% and extend the range of electric vehicles by 8%.

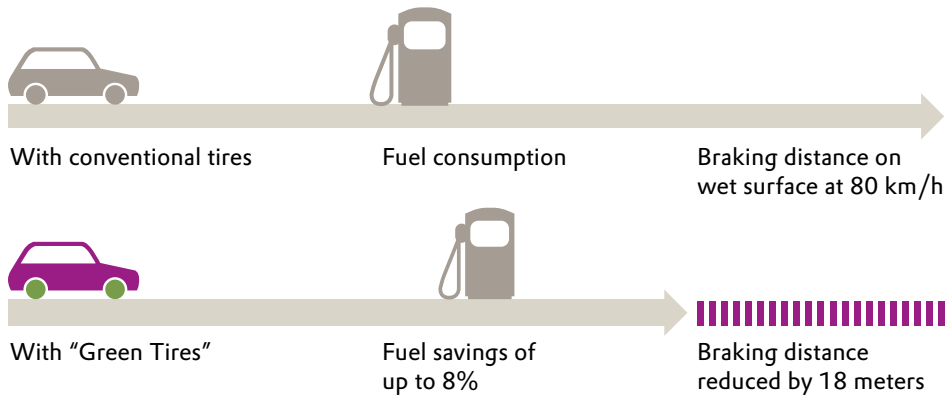
BENEFITS OF THE SILICA/SILANE SYSTEM FOR TIRE PERFORMANCE

- Highly efficient, proven filler system for fuel-saving tires
- Reduced rolling resistance for lower fuel consumption and extended EV range
- Excellent wet grip performance in rain, ice and snow for enhanced safety
- High durability even under heavy loads
- Good abrasion resistance, ensuring a long service life

MAGIC TRIANGLE OF TIRE PERFORMANCE



THE IMPACT ON FUEL CONSUMPTION REVEALS THE "GREEN TIRE" TECHNOLOGY'S BENEFIT



Evonik provides tire manufacturers with comprehensive life cycle assessment (LCA) data and develops silica and silanes based on bio-/circular materials.

The Silica and Silanes experts at Evonik – From elements to excellence.



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