SILICONES & TRANSPORT



Did you know?



You may know silicones as the sealant in your bathroom. But did you know that silicones play a key role in cars, airplanes, trains and ships?

Most materials deteriorate in harsh and extreme conditions, but not silicones. They retain their properties and - most important – ensure that cars, ships, airplanes and trains operate safely and sustainably for the long haul.

A SELECTION OF APPLICATIONS







Paints & coatings



Light weight doors



Rubber



ABS sensor & sealing



1.7 MILLION PEOPLE ACROSS **EUROPE ARE EMPLOYED IN SECTORS THAT ARE RELATED TO** SILICONE PRODUCTS.

Silicones are part of a bigger value chain that create jobs and enable a better quality of life for us.

A SNAPSHOT OF HOW SILICONES HELP IMPROVE OUR LIVES



CAR / AUTOMOTIVE **MANUFACTURING**

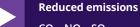


LOWER WEIGHT COMPONENTS



Increased fuel efficiency

Savings in Europe €1400 million per year



CO₂, NO_x, SO₂, known to cause adverse effects to human health & environment



You will find more information on the socio-economic contribution of silicones in our report available at silicones.eu

THEY REDUCE ENVIRONMENTAL IMPACT.

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- •••• Silicones make an impressive contribution to reducing fuel consumption of cars and ships, significantly reducing the CO₂ footprint of the transport sector.¹
- •••• Over 86 tonnes of CO₂ is saved for every tonne of CO₂ emitted during the production of silicone rubber used to make motor parts.
- •••• Fuel savings outweigh CO_2 emissions from production of the silicone product 182 times.

THEY INCREASE FUEL EFFICIENCY.

- •••• Silicones improve fuel efficiency for ships and boats as they dramatically reduce the buildup of dirt and film on the hull.
- •••• Silicones insulate electronic parts, reduce tire rolling resistance, bond lightweight materials together and seal windows and doors reducing friction and fuel consumption.

THEY ENSURE SAFETY.

- •••• Highly durable, gas-tight fabrics are crucial to the performance of airbags, which is why these are coated with silicone on the inside.
- ensure the airbag is gas-tight and heat resistant under the pressure from rapid inflation and other extreme conditions, such as fire.

1 - GSC Carbon Balance Study, 2012

By using products made with silicones, you generate on average 9 TIMES LESS GREENHOUSE GASES than were emitted during manufacturing and disposal of that product.



WANT TO KNOW MORE?

This is just a snapshot of some of the applications in which silicones are used. For more information on silicones in other transport applications, the following website will help you find what you need:

WWW.SILICONES.EU

or follow us on twitter @SiliconesEU

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