

## MEDIA RELEASE

Wohlen, Switzerland, July 31, 2013

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Sulzer Metco  
Divisional Communications

5610 Wohlen, Switzerland  
Phone +41 56 618 81 63  
Fax +41 56 618 83 02

## New DLC Coating Helps Achieve EU6 Emission Limit



*A.CARBON coated automotive components*

Sulzer Metco has developed a new diamond-like carbon (DLC) coating that helps automotive designers to achieve the EU6 emission limit. The new thin film coating called "A.CARBON" ensures component reliability with a surface solution that combines reduced friction and excellent wear protection.

The automotive industry is constantly seeking coating solutions that combine eco-friendly features with high performance results, considering them as key technology drivers. For many years, numerous automotive manufacturers have put their trust in DLC coating solutions, notably for engine applications, drivetrain components and transmission parts.

Diamond-like carbon coatings make up the largest proportion of thin film coating solutions applied in the automotive industry. By reducing friction, corrosion, and wear, the coatings increase engine performance and extend component life expectancy, while reducing emissions and fuel consumption.

The black, smooth coating **A.CARBON** provides excellent wear protection for dry and starved lubrication applications as well as abrasive and adhesive wear protection in tribological systems. Thanks to its amorphous structure and the a-C:H:W layer within the multilayer coating structure, **A.CARBON** is best suited for highly stressed components in modern engines. These properties result in high hardness levels of 22 to 30 GPa and improved fatigue resistance. A further benefit of **A.CARBON** is the increased wear protection of uncoated counterparts. Coating only one surface of a frictional couple is often sufficient.

**A.CARBON** coated components, such as injection components, finger followers, tappets, pistons, piston pins and rings contribute to achieving emission targets without loss of performance. DLC coatings ensure fulfillment of the automotive industry's present day requirements, as well as those of the future.

More information

[A.CARBON – DLC Coatings for Best Performance](#)

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### ***Inquiries:***

*Andreas Bachmann, Head Markets & Communications*

*Phone +41 56 618 81 63, [andreas.bachmann@sulzer.com](mailto:andreas.bachmann@sulzer.com)*

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