

Heraeus



Catalysts for Motorcycles
Heraeus Catalysts (Danyang) Co., Ltd.

Heraeus Holding

Established in 1851 and headquartered in Hanau, Germany, Heraeus Holding has developed into an international high-tech enterprise specializing in precious metals, sensors, dental and chemical products, quartz glass and specialty lighting sources with experience based on

155 years of vigorous development. With more than 13,000 employees working for over 110 subsidiaries scattered throughout at least 30 countries and regions Heraeus emerges as a global leader in the field of precious metals and materials technology.



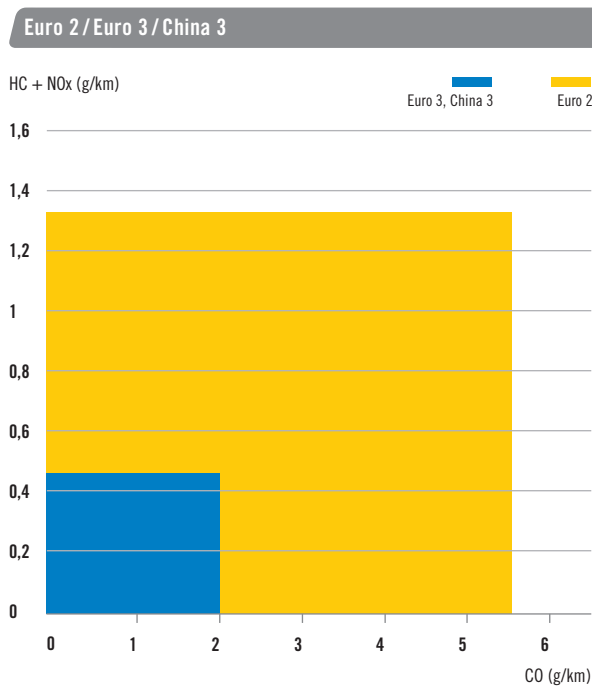
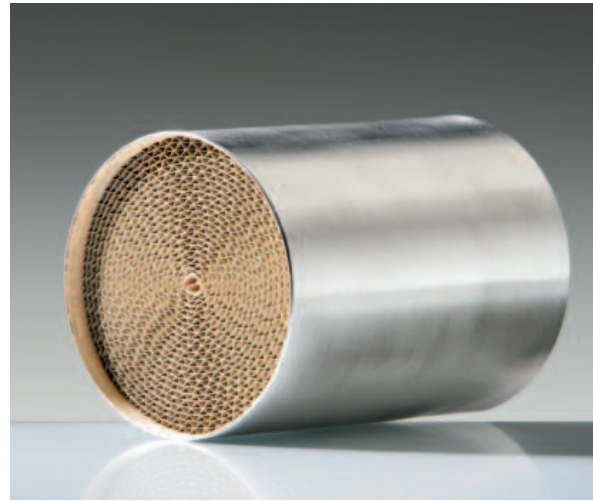
Heraeus Headquarter in Hanau, Germany

Motorcycle Emission Regulations

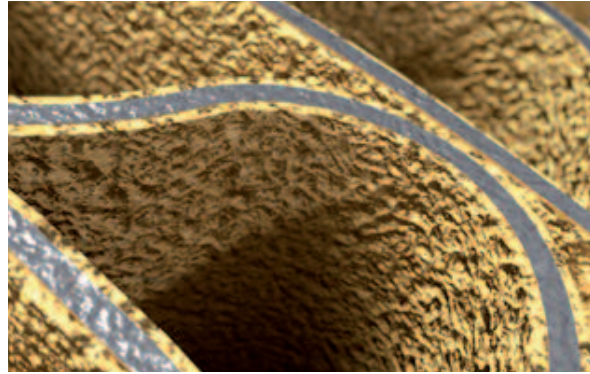
Stricter emission standards worldwide require the use of catalytic converters in almost all motorcycles. China 3 regulation which is based on Euro 3 regulation will become effective on July 1, 2010.

Catalyst challenges are:

- Cold start included in emission test cycle
- High speed mode for > 150 cc vehicles with high NOx emissions
- Durability
- High exhaust gas temperatures
- Catalyst poisoning



Motorcycle Catalysts



Our coatings for motorcycle catalysts are especially made for low light-off temperatures in order to meet the cold start requirements called for in China 3 legislation. By using high performance washcoat materials activity can be maintained even in cases of high durability demands. Due to Heraeus' long-term experience in motorcycle catalyst application we are able to offer the best performance even with the lowest precious metal loadings.

Catalysts which can convert the hydrocarbons CO and NOx in parallel are known as 3-way catalysts.

They are used in all types of gasoline engines (e.g. automobiles, motorcycles, stationary engines, sport boats, small engines). For the manufacture of catalysts, shaped bodies (known as monoliths) are coated with layers containing precious metals. For this, finely distributed particles of the precious metals platinum, palladium and rhodium are deposited on oxide materials such as alumina. The conversion of the pollutants into CO₂, water and nitrogen takes place at the point of the precious metal particles.



Heraeus Catalysts (Danyang) Co., Ltd. (HCDC)

In January 2009, Heraeus Catalysts (Danyang) Co., Ltd. was established in Danyang Economic Developing Zone following an announcement by Heraeus Germany, the global market leader in precious metals and advanced technology, and Jiangsu Golden Changjiang Environmental Protective Motor Muffler Co. Ltd., one of the largest Chinese producers of mufflers for motorcycles. Heraeus Catalysts (Danyang) is the Chinese production and service center for catalytic solutions used in motorbikes, thus enabling Heraeus to offer a superior service to Chinese customers.

China is worldwide the biggest manufacturer of motorbikes. Over 22 million motorcycles are manufactured in China each year, a number that represents approximately 50% of the world's production. The win-win cooperation with joint venture partner Golden Muffler in Danyang means that HCDC offers customers an additional regional presence that will enhance the proximity to customers.

We provide in close cooperation with our customers all steps included from design and manufacture of the catalytic converters right up to their installation in the mufflers themselves, and follow up with an excellent technical service.



President Mr. Hu Jintao met with Dr. Heraeus in Berlin, Germany in November 2005.



Premier Mr. Wen Jiabao met with Dr. Heraeus in 2004.

Heraeus Catalysts (Danyang) Co., Ltd.

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