

## >>> SINOx<sup>®</sup> Honeycomb Catalysts

Johnson Matthey exhaust gas treatment catalysts convert pollutants into substances which are environmentally benign (e.g. water vapor, nitrogen). At our manufacturing facility in Redwitz, Germany, which also produces our SINOx<sup>®</sup> plate and oxidation catalysts, we fabricate honeycomb catalysts for NOx removal. These catalysts operate with a high cleaning efficiency and reliably reduce the concentration of nitrogen oxides to below Air Pollution Control Code limits.

SINOx<sup>®</sup> full-ceramic honeycomb catalysts consist entirely of catalytically active materials like titanium dioxide, vanadium oxides and tungsten oxides.

The typical application for SINOx<sup>®</sup> honeycomb catalysts is the abatement of NOx under low-dust conditions. Examples are plants firing high-grade coal, gas and oil as well as gas turbines and internal combustion engines firing HFO, LFO or gas. Exhaust gas from municipal waste incineration plants is another field of application.



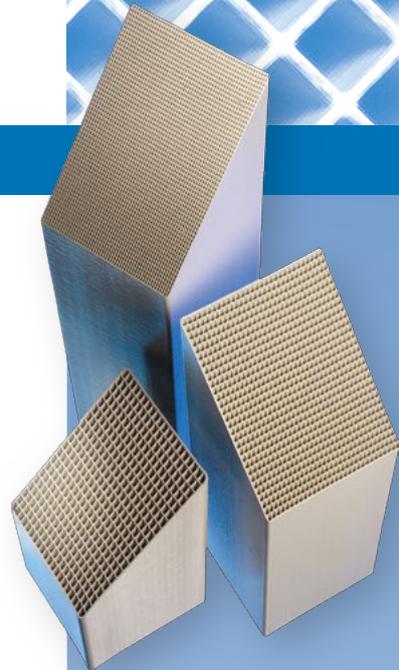
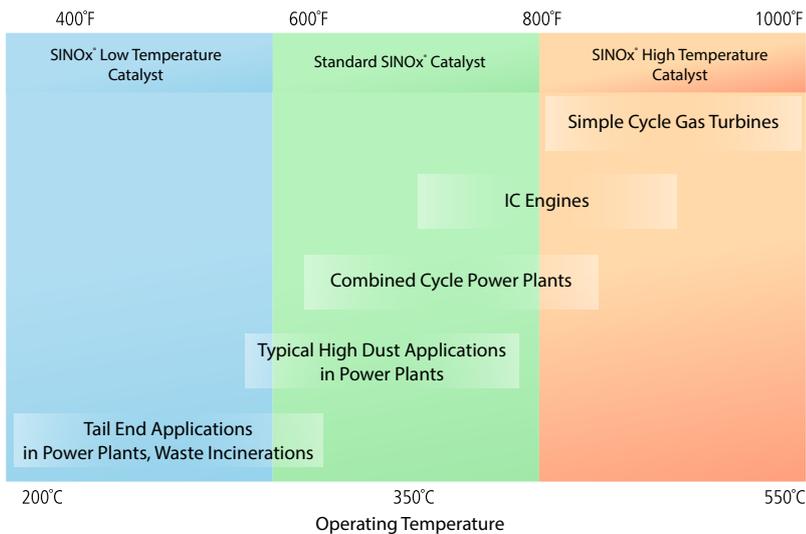
## Features and Benefits of SINOx® Catalysts

The extremely high specific surface area of SINOx® honeycomb catalysts ensures a low catalyst volume and therefore a compact design of your SCR installation.

The catalyst type and the required catalyst volume will be individually designed and optimized based on the specified exhaust gas conditions. Honeycombs with a pitch between 2.7 and 8.2 mm (0.11 and 0.32 inches) are available. The catalyst length will vary depending on operating conditions.

The exhaust gas temperature plays an important role in the choice of catalyst. In addition to our 'standard catalysts' for operating temperatures between 280°C and 450°C (535°F and 845°F), Johnson Matthey offers catalysts especially developed for low and high temperature applications. This results in high NOx removal efficiency at a temperature range between 170°C and 510°C (335°F and 950°F).

### Temperature Ranges for SCR Applications



**Please contact us for further inquiries:**

Johnson Matthey Catalysts

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