Selective Catalytic Reduction (SCR) is the technology used most often at gas turbine installations for the abatement of nitrogen oxides (NOx) in the exhaust gas stream. The heart of an SCR system is the catalyst. Ammonia is injected into the gas stream, upstream of the catalyst, reducing NOx into harmless nitrogen and water.

We developed catalysts specifically intended for gas turbine applications with walls significantly thinner than previous designs. These catalysts combine high specific surface area with high catalytic activity and minimal pressure drop.
The catalyst type and the required catalyst volume will be custom-designed and optimized based on the specified exhaust gas conditions. For gas turbines firing natural gas or fuel oil, catalyst pitches of 2.7 mm or 3.7 mm are typically used. The catalyst length will vary depending on operating conditions.

The exhaust gas temperature plays an important role in the selection of the best catalyst. Our standard catalyst is formulated for highest catalytic activity at operating temperatures between 280°C and 450°C (535°F and 845°F). Johnson Matthey also offers catalysts specially formulated for low and high temperature applications. Our low temperature catalyst operates down to 170°C (335°F) while our high temperature catalyst operates up to 510°C (950°F).

**SINOx® Modules for Gas Turbine Applications**

Our modules for use in horizontal ducts are stackable and interlocking, resulting in a stable configuration. Handling of these modules using a mobile crane ensures a safe and very fast installation.

**Temperature Ranges for SCR Applications**

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**Please contact us for further inquiries:**

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