

JM

Activate your potential

Tailored catalyst technology for your operation

Johnson Matthey's catalyst technology **CATACEL SSR™** is a high performance catalyst coated reaction technology for steam reforming. **CATACEL SSR** is produced by forming alloy strips into engineered foil supports called fans. The fans are coated with a promoted nickel based steam reforming catalyst using a proprietary coating process that ensures a robust, durable and long-lasting coating is delivered. The fans are quite 'springy' and can easily be pulled or pushed into different diameters or shapes, thereby allowing easy installation.



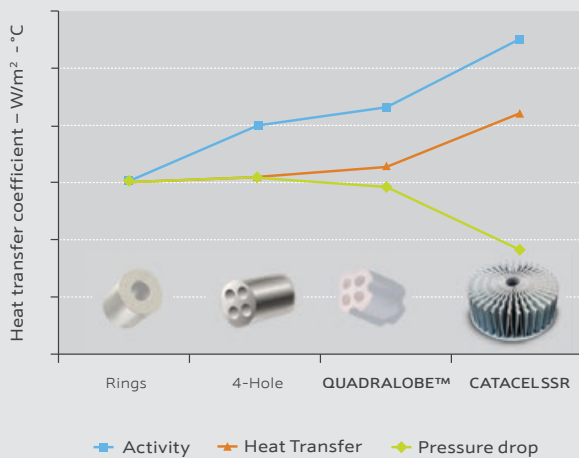
Johnson Matthey
Inspiring science, enhancing life

This modular, structured CATACEL SSR catalyst offers hydrogen plant owners significant benefits

- Controlled gas flow through the fan structures produces enhanced heat transfer, leading to lower fuel consumption, lower tube wall temperatures and longer tube lives
- Increased catalyst activity and higher plant efficiency



Relative performance of various steam reforming catalysts



- Significantly lower pressure drop at a given production rate allowing for production rate increases
- The high reactive surface area of **CATACEL SSR** provides a very high carbon margin which delivers the potential to reduce the steam to carbon ratio
- Customised designs are available for every reformer to give customers the most optimal solution
- Reduced firing does not only save on fuel costs, but it also helps to reduce NOx emissions

If you are interested to learn more please contact your local Johnson Matthey representative or visit the website.

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