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Optimising performance with technical excellence



Johnson Matthey
Inspiring science, enhancing life

Optimising performance with technical excellence

Optimising designs

We believe that only through careful data collection and analysis throughout the product life cycle, can we give customers the best possible products.

Our highly trained technicians and scientists investigate weight loss, gas flow distribution and contamination sources of gauzes. These results are used to refine new gauze designs to reduce metal loss and enhance performance of future campaigns'

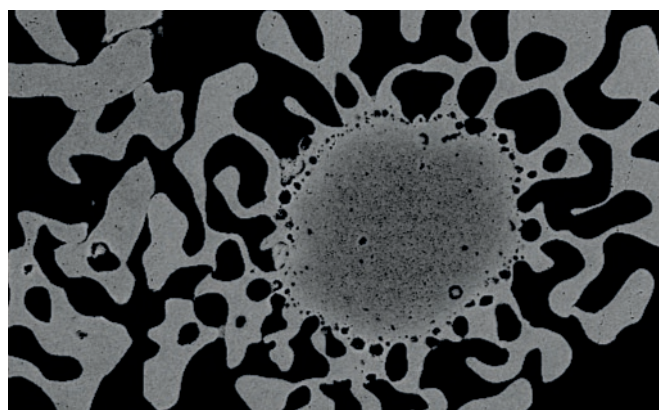
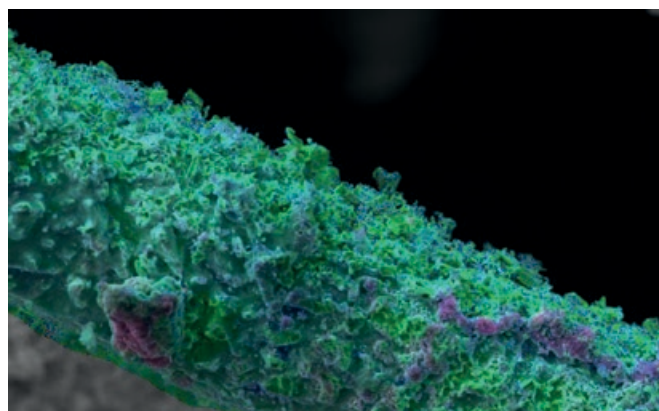
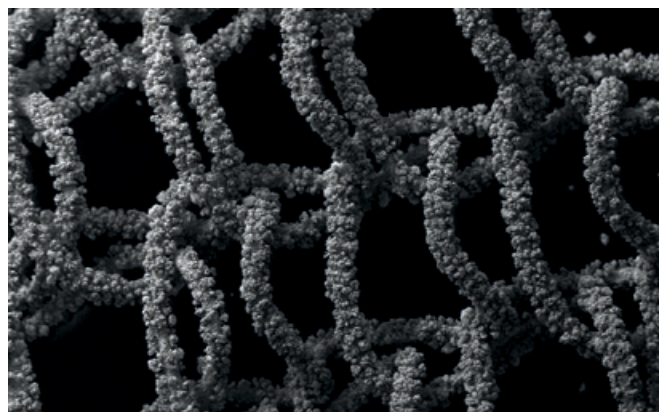
Our dedicated Research and Development team has two ammonia oxidation test rigs, which are used to simulate plant conditions and help us understand the fundamental design basis of a successful gauze pack. This is complimented by a large range of analysis equipment, which can interrogate the top surface layers, as well as the bulk of the gauze.

Case study: Tailoring gauze packs

During the analysis of one of the returned gauzes, the team noticed that certain regions of the gauze were seeing more restructuring and metal loss than others.

After discussion with the customer, it was agreed that the flow was likely to be uneven and difficult to correct. For the next installation, the metal level was increased in the regions of high flow, creating a more balanced reaction zone, and reducing the risk of bypass.

Analysis of returned gauzes from subsequent campaigns demonstrated better ongoing performance and control of metal loss characteristics.



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For further information on Johnson Matthey, please contact your local sales representative or visit our website.