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Rapid activation to improve performance



New activation layer to improve performance

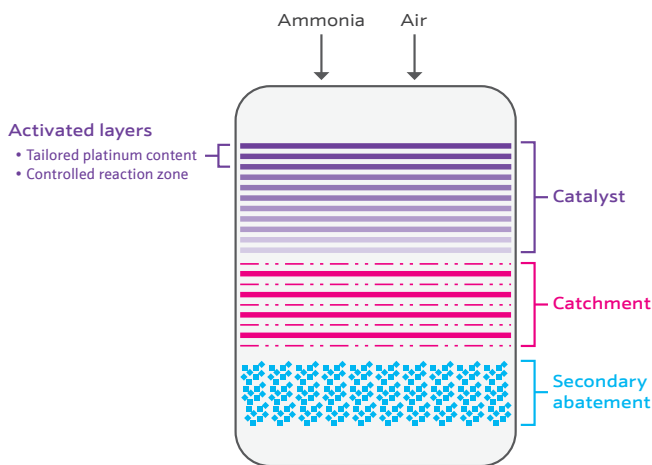
New activation layer

Johnson Matthey has traditionally focused on bringing each customer a tailored solution for their nitric acid plants, ensuring the best opportunity for high yields, low metal losses, and low environmental emissions. We have now expanded our offering to include a new rapid activation layer, which offers the following features:

- Enhanced light off
- Reduced rhodium oxide formation
- Lower cost

Johnson Matthey's solution

We have developed a new platinum introduction process, which ensures rapid, even and consistent light-off at the point it is needed. The increased availability of platinum at the top of the pack rapidly brings the pack outside the temperature range susceptible to rhodium oxide formation. At the same time, N₂O generation is reduced, through stabilisation of the temperature on the first layer and the improved selectivity of our platinum-rich region.

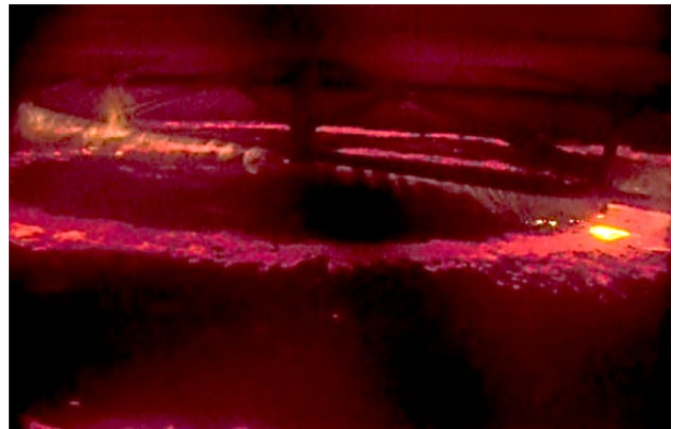


Implementation

Suitable for all knit types, this activation technique can be successfully used for all gauze sizes and product ranges. The lower rhodium content can be used to reduce the weight of rhodium required in the first layer typically by 20%, which allows us to pass on significant savings and metal security to the customer.

Successful operation

At Johnson Matthey we tailor metal distribution (Pt, Pd and Rh) throughout the pack, to offer customers the best cost and technical performance. This new activation layer gives us an even greater ability to focus the positioning of platinum, where it is needed, and to reduce rhodium at a time where prices are high and unstable.



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