

DD-831

Promoted Claus catalyst spheres

BASF DD-831 is a high surface area activated alumina promoted to enhance the activity of Claus and related reactions.

Product Applications

BASF DD-831 promoted alumina shows improved resistance to deactivation from sulfation in all phases of the Claus process. DD-831 promoted alumina is especially beneficial in giving greatly improved COS decomposition in the first catalytic converter. In comparison, with non-promoted alumina the conversion of COS will gradually decrease with time.

DD-831 may be used either in the whole converter bed or in a half bed configuration. If used only in the half bed, it should be placed in the bottom half for maximum effect. The upper section of the bed can be filled with BASF DD-431, a high activity, non-promoted alumina.

BASF DD-831 activated alumina may be used in a second or third reactor to give enhanced resistance to deactivation from sulfation. This is highly recommended when direct reheat systems are being used. The inherent resistance of this product can prolong the effective catalyst life by a factor of 3 when oxygen regress causes accelerated sulfation.

Physical Properties (3/16 in spheres)

Surface Area, m ² /g	320
Total Pore Volume, cc/g	0.50
Macroporosity > 750 Å, cc/g	0.1
Crush Strength, lbs (kg)	30 (14)
Abrasion Loss, wt %	0.5
Al ₂ O ₃ + promoter, wt %	>99 %
Bulk Density, lbs/ft ³ (kg/m ³)	43 (690)

*These indicative properties do not represent process capabilities nor specifications.

Available Packaging

- 2000 lb (907 kg) super sacks

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

Americas

BASF Corporation
25 Middlesex/Essex Turnpike
Iselin, New Jersey, 08830, USA
Tel : +1-732-205-5000
Fax: +1-732-205-7725
Email: catalysts-americas@basf.com

Asia Pacific

BASF (China) Company Limited
300 Jiang Xin Sha Road,
Pudong, Shanghai 200137
P.R. China
Tel: +86-21-2039 2549
Fax: +86-21-2039 4800-2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF De Meern BV Catalysts
The Netherlands
Tel: +31-30-666 9437
Email: catalysts-europe@basf.com

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