

S-100 SR

Promoted activated alumina catalyst

BASF S-100 SR is a high surface area, promoted activated alumina catalyst used to scavenge oxygen in Claus alumina catalyst beds. S-100 SR is available as 3/16 inch spheres.

Applications

The reaction of oxygen with SO₂ on the catalyst surface to form sulfate is one of the primary reasons for loss of catalytic activity. S-100 SR is applied as a guard layer of 9-12 inches on the top of the Claus catalyst converter to react with oxygen, thereby preventing sulfation of the alumina catalyst and preventing loss of catalytic activity.

It is especially advantageous to use S-100 SR in Claus plants where direct reheat is used. This method of reheat makes it difficult to prevent oxygen breakthrough into the catalyst bed. On any converters where oxygen infiltration is a problem, this promoted catalyst is particularly effective in preventing sulfate formation on the activated alumina catalyst installed.

Available Packaging

- 2000 lb super sacks
- 350 lb steel drums

Chemical Composition (wt %)

Al ₂ O ₃ + promoter	93.5
SiO ₂	0.015
LOI (1000° C)	6.0

Physical Properties 3/16" (4.8mm)

Surface Area, m ² /g	300
Total Pore Volume, cc/g	0.50
Crush Strength (5 mesh sphere), lbs (kg)	35 (16)
Abrasion Loss, wt %	0.7
Bulk Density, lbs/ft ³ (kg/m ³)	45 (720)

About Us

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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-america@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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