

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.

Product Applications

The reaction of oxygen with SO_2 on an alumina 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 on the top of the Claus catalyst converter to react with oxygen, thereby reducing sulfate formation on the underlying alumina catalyst and the associated loss of catalytic activity.

It is especially advantageous to use S-100 SR in Claus plants where direct reheaters are present. This method of reheat makes it more likely oxygen breakthrough into the catalyst bed will occur. On any converter where oxygen infiltration is a problem, this promoted catalyst is particularly effective in reducing sulfate formation on the installed activated alumina catalyst.

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
Al_2O_3 + promoter, wt %	>99%
Bulk Density, lbs/ft^3 (kg/m^3)	45 (720)

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

Available Packaging

- 2000 lb (907 kg) super sacks
- 350 lb (159 kg) steel drums

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

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