

Zn 9201

Sulfur Adsorbent

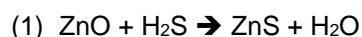
BASF Zn 9201 is a zinc oxide based adsorbent for the removal of hydrogen sulfide from hydrocarbon feedstocks.

Zn 9201 is produced as extrudates with a nominal diameter of 4 mm.

Product Applications

Zn 9201 is specifically used for the adsorption of H₂S (hydrogen sulfide) from different streams containing either hydrocarbons or hydrogen or mixtures thereof.

The mechanism of adsorption can be described as follows:



As the feed gas passes through the adsorbent bed, hydrogen sulfide is irreversibly adsorbed by the active zinc oxide particles within the catalyst. This reaction starts at the outer surface and proceeds to the core of the adsorbent. Since diffusion of hydrogen sulfide through the matrix is a slow process, more high-activity zinc oxide sites need to be available to maximize the sulfur adsorption. Zn 9201 is designed with this in mind as it provides an optimal surface area of highly active zinc oxide for maximal sulfur pickup.

To maximize performance, higher temperatures are recommended. Zn 9201 can be used up to temperatures of 400°C / 750°F.

Typical Properties

Chemical

ZnO wt. % ≥ 95

Physical

Surface Area, m²/g 30 m²/g

Bulk Density $\sim 1150 \text{ kg/m}^3$ ($\sim 72 \text{ lbs/cuft}$)

Crush Strength At least 40 N/cm

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

Packaging

- Steel drums, 200kg net

Shipping Point

BASF warehouse, The Netherlands

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BASF - We create chemistry

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