

PuriStar® R3-15S T5x3

Sulfided CuO/ZnO Tablets

BASF PuriStar® R3-15S is an adsorbent specifically developed for the removal of mercury components from different streams.

Product Applications

PuriStar® R3-15S is a copper sulfide-based adsorbent for the removal of Hg compounds from liquid and gas streams containing water. Its good performance is due to the high copper sulfide content, high surface area and ultra-fine copper sulfide crystallite size. This allows for a reliable interaction of the Hg with the sulfur bound to Cu and thus a good capacity of the material.

Process dependent, PuriStar® R3-15S can be used up to temperatures of around 100°C (210°F).

Since the material is sulfided, the exposure to ambient air needs to be limited as far as possible. Indeed, humidity as well as oxygen can lead to changes in the properties of the material.

Thus, also storage of the material should be limited to 6 to 12 months.



Based on measurements done by BASF, the material is capable of self-heating. However, it is able to be handled under air. Thus loading under air is possible. For more detailed information on the

safe handling of this material please refer to the respective SDS or contact BASF for further information.

For the removal of Hg from dry streams, BASF offers Selexsorb® Hg.

A newer generation material for the removal of Hg from humid streams is now available and is offered under the trade name of Durasorb® HG, respectively HGS (as sulfided adsorbent). Please contact BASF for more details.

Typical Properties

Chemical

Sulfided Cu, wt % Approx. 45

ZnO, wt % Approx. 35

Alumina and Promoters Rest

Physical

Crush Strength, N Approx. 110, side wall

~ 1450 (91) tapped

Bulk Density, kg/m³ (lbs/ft³) ~ 1350 (84) sock

Packaging

- Steel drum (128 l) with in-liner loaded with 160 kg net

Shipping Point

- Ludwigshafen, Germany

About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts and adsorbents and custom catalysts. In the process catalysts business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

BASF's chemical catalysts and adsorbents business is part of the company's Performance Chemicals division. The division's portfolio also includes refinery catalysts, fuel and lubricant solutions, as well as oilfield chemicals and mining solutions. Customers from a variety of industries including Chemicals, Plastics, Consumer Goods, Energy & Resources and Automotive & Transportation benefit from our innovative solutions.

BASF - We create chemistry



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