

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 has been developed for the removal of Hg compounds from liquid and gas streams containing certain amounts of 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 to a good capacity of the material.

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

Due to the fact that 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 if possible.

Based on measurements done by BASF, the material is considered to be stable under air. Thus loading under air is possible. For more detailed information on the safe handling of this material please refer to the respective MSDS or contact BASF for further information.

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

A newer generation of material for the removal of Hg from humid streams is now available and is offered under the trade name of Durasorb Hg.

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 inliner loaded with 160 kg net

Shipping Point

- Ludwigshafen, Germany

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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