

Durasorb[®] HG/HGS

BASF Durasorb[®] is a family of products developed in combination with proprietary design software to complement each other for the purification of gas streams. Durasorb[®] HG/HGS is a high-performance mercury removal adsorbent for natural gas and liquified petroleum gas processing applications.

Product application

Durasorb[®] HG/HGS removes mercury in natural gas and liquified petroleum gas streams, protecting downstream piping and machinery and providing a stream that complies with environmental regulations. Durasorb[®] HG/HGS is suitable for projects requiring cryogenic specifications and pipeline specifications.

Physical characteristics

Durasorb[®] HG/HGS is a non-regenerable, mixed metal oxide mercury removal adsorbent containing a dispersed and promoted copper sulfide phase. The active component and proprietary promoters are dispersed over a high surface area alumina support. Durasorb[®] HG/HGS is a mechanically robust adsorbent that can withstand occasional liquid water and hydrocarbon carry-over. Durasorb[®] HG/HGS is designed to operate in the toughest conditions while still maintaining material integrity.

Product features

- Robust material designed to operate in wet conditions
- High mercury capacity, superior penetration
- Fast kinetics, with optimized mass transfer zone
- High crush strength and attrition resistance

Physical Properties

Particle size	Spheres, nominal 1/8" dia.
Surface Area (BET, m²/g)	>200
Pore Volume (ml/g)	0.35
Bulk Density, sulfided (kg/m³)	750-800

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

Products offered

- Durasorb[®] HG* (unsulfided material)
 - 907 kg big bag
- Durasorb[®] HGS (sulfided material)
 - 130 kg steel drum

* Requires feeds containing H₂S to activate in situ.

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, refinery catalysts 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.

The division's portfolio also includes battery materials and recycling solutions, as well as environmental catalysts and metal solutions. Customers from a variety of industries including Automotive & Transportation, Chemicals, Plastics or Energy & Resources benefit from our innovative solutions. Further information on BASF's Catalysts division is available on the Internet at www.catalysts.basf.com.

BASF - We create chemistry

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