

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, m ² /g)	>200
Pore Volume (ml/g)	0.35
Bulk Density, sulfided (kg/m ³)	750-800
Crush Strength (N)	>15

* 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'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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