



BRIMSORB-SX[®] H₂S Removal Media

Product Summary

BRIMSORB-SX[®] is an ultra-high capacity, fast-reacting product based on an amorphous iron oxy-hydroxide. It is widely used for H₂S removal from natural gas, CO₂, biogas, landfill gas, refinery fuel gas, coal gas etc.

It is comprised of a mixed metal oxide, formed into a highly porous, stable, abrasion resistant, cylindrical shape. The adsorbent reacts with hydrogen sulfide converting it to a stable, non-hazardous mixed metal sulfide that can be easily disposed of. This advanced material is resistant to degradation by hydrocarbons and water both in its fresh and spent form.

1. Physical Properties

Item	Value
Appearance	Cylindrical Pellet
Particle size, mm	φ(3.6 – 4.4) × (3 – 15)
Bulk Density, lb/ft ³ (kg/m ³)	50 – 63 (800 – 1000)
Strength, N/cm	≥30
Water, %	>25%

2. Typical Application Conditions

Item	Value
Temperature, °F	50 - 210
Pressure, MPa	>0.1
Space Velocity, h ⁻¹	≤1800
Capacity, (wt.) %	≥45

3. Packaging and Storage

- 1) Packed in 820 kg super sacks.
- 2) Super stacks should not be stored more than 2 high.
- 3) Stored in a cool and dry place.
- 4) Three-year warranty at room temperature.

Loading Capacity

The BRIMSORB family of products is specifically engineered for high H₂S absorption rates. The actual loading capacity is dependent on several parameters such as gas moisture, H₂S concentration, gas pressure levels, vessel size, and flow-rate gas velocity. BRIMSORB has performed at loading capacities ranging from 20 to 70% weight percent. SJ Environmental offers technical support to help choose the specific BRIMSORB product and model expected field results.