



BRIMSORB-X[®] H₂S Removal Media

Product Summary

BRIMSORB-X[®] is a 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.

Engineered to withstand a higher sulfur intake, avoid channeling and pressure drop reduction, this cylindrical adsorbent is biodegradable, creating zero hazardous waste from spent adsorbents.

1. Physical Properties

Item	Value
Appearance	Cylindrical Pellet
Particle size, mm	φ(3-4) × (3-10)
Bulk Density, lb/ft ³ (kg/m ³)	59 – 69 (945 – 1105)
Strength, N/cm	≥20
Water, %	15-18

2. Typical Application Conditions

Item	Value
Temperature, °F	40 - 140
Pressure, MPa	>0.01
Space Velocity, h ⁻¹	≤200
Capacity, (wt.) %	≥35

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.