



## BRIMSORB-Z<sup>®</sup> H<sub>2</sub>S Removal Media for high temp and high velocity

### Product Summary

BRIMSORB-Z<sup>®</sup> is a product based on an amorphous iron oxy-hydroxide. It is widely used for H<sub>2</sub>S removal from natural gas, CO<sub>2</sub>, 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.

### Physical Properties

Item	Value
Appearance	Cylindrical Pellet
Particle size, mm	φ(3.6 – 4.4) × (3 - 15)
Bulk Density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	50 – 62 (800 – 1000)
Strength, N/cm	≥ 30
Water, %	15-20

### Typical Application Conditions

Item	Value
Temperature, °F	40 – 140
Pressure, MPa	>0.01
Space Velocity, h <sup>-1</sup>	≤ 800
Capacity, (wt.) %	≥35

### Packaging and Storage

- 1) Packed in 800 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 H<sub>2</sub>S absorption rates. The actual loading capacity is dependent on several parameters such as gas moisture, H<sub>2</sub>S 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.