

ZX-OF-04

Ferric hydroxide desulfurizer ZX-OF-04

General

Ferric hydroxide desulfurizer ZX-OF-04 is mainly used in industrial raw materials and industrial gases such as fertilizer, chemical industry, petrochemical industry, coal chemical industry, etc. so as to remove hydrogen sulfide, such as natural gas, water gas, semi-water gas, carbonized gas, shift gas, coke oven gas, liquefied gas dry removal of H₂S from sulfur-containing gases such as gas, biogas, CO₂, steel plant raw gas, and city gas, for organic sulfur, it also has a certain removal effect.

Ferric hydroxide desulfurizer ZX-OF-04 has high strength and good water resistance. Boiled in water for 2 hours or soaked for 30 days, it will not turn into powder and the strength will remain unchanged. The primary penetration sulfur capacity can reach more than 43%, which greatly extends the service life of the desulfurizing agent and reduces the replacement frequency. It relieves the pressure on environmental protection and is especially suitable for degassing sulfur-containing gases with dispersed filling and small filling volume.

Composition

Iron hydroxide oxide

Product

Granularity	$\phi (4.0\sim 5.0) \times (5\sim 15)\text{mm}$
Effective substance content	98%
Saturated sulfur capacity	700 - 800 mg/g
Working sulfur capacity	$\geq 20\%$
Filling density	0.85 - 0.95 t/m ³
Intensity	50 N/cm

Moisture

≤ 10%

Application

Using instruction**Sulfur Engineering filling of hydroxyl Iron Desulfurizer**

1. Before filling, the desulfurization tower must be cleaned and the filling quantity of each layer determined. It is best to divide it into two or more layers.
2. When loading, first lay a layer of wire mesh and refractory balls (or coke) on the furnace wall, and then lay two layers of about 20 mesh, steel wire mesh, finally installed with desulfurizer.
3. The filling desulfurizer should be poured into the furnace gently from the lowest possible height, and the height of free falling particles should be less than 0.5 meter.
4. During the filling process, the catalyst should be spread out and filled evenly. It should not be dumped in a concentrated manner or only from one side, pour to avoid uneven filling and gas deviation.
5. When loading, the operator should stand on the wooden board to operate. It is strictly forbidden to step directly on the catalyst to avoid causing new powder.
6. After the catalyst is filled, use a wooden board to smooth the surface, and then cover it with a layer of iron mesh and refractory balls.
7. An appropriate amount of water vapor is allowed in the raw gas, but it is strictly forbidden to carry a large amount of water or accumulate water in the bed, and the front of the tower is showered to the bottom of the tower. Sewage should be discharged regularly.
8. When operating multiple towers, the order of gas passage should be considered to try to keep the working sulfur capacity close to saturation.

Normal operating conditions

1. Airspeed: 500-1500h⁻¹, preferably 500-1000h⁻¹.
2. Temperature: 5~70°C
3. Pressure: normal pressure ~80MPa
4. Humidity: When removing H₂S, the higher the humidity, the better. It is best to be close to

saturated air, but it is strictly forbidden to bring water into the bed.

Storage

Ferric hydroxide desulfurizer ZX-OF-04 should be stored in a cool and dry place to prevent the rupture inside and outside of the packaging, direct contact with the outside world, adsorb other substances, reduce the adsorption of hydrogen sulfide and use effect.

Ferric hydroxide desulfurizer ZX-OF-04 is a porous adsorbent, so it is in transport. , In the process of storage and use, water immersion should be absolutely prevented. After water immersion, a large amount of water fills with active pores and loses its function.

Packing

200L drums or packaged according to customer's requirement.

Safety and handling

Wear individual protection equipment including mask. Ensure adequate ventilation. Avoid contact with the skin, eyes, or clothing. Avoid ingestion and inhalation.. Avoid the formation of dust.