

# BR104S Sulfur Adsorbent

## Products Introduction:

**BR104s Sulfur Adsorbent** is new high efficient desulfurizer which main ingredient is activated Zinc Oxide with appropriate additive used at ambient temperature . **BR104s Sulfur Adsorbent** is suitable for removing sulfide in synthesis gas, natural gas, oil and gas, convertergas, hydrogen and nitrogen gas, liquid hydrocarbon, liquefied petroleum gas and food grade CO<sub>2</sub>. BR104S Zinc Oxide desulfurizer is sulfur capacity, high strength, good water resistance, and strong adaptability. It is available at 20 °C - 120 °C.

## The Technical data of BR104S Zinc Oxide desulfurizer:

Zinc oxide content: 85%

Appearance: white strips

Specification:  $\phi$  3-5x5-10mm

Stack density: 0.9 ~ 1.1kg/l

Surface area:  $\geq$  60m<sup>2</sup>/g

The sulfur capacity:  $\geq$  10% (30 °C)

Abrasion:  $\leq$  1%

Side pressure compressive strength:  $\geq$  60N / cm

## Application conditions:

1 H<sub>2</sub>S  $\leq$  100ppm.

2 pressure: 0~ 8.0MPa

3. Temperature 20 ~ 120 °C

4. Gas space velocity: 1000 ~ 3000h<sup>-1</sup>

5. liquid space velocity 1 ~ 5H<sup>-1</sup>

6. Oxygen content in feed gas should not be greater than 0.5%

7. Bed / tower diameter: 3

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### **Loading of desulfurization agent**

1 Firstly in the upper plate of the desulfurizing tower, put two layers of 10 ~ 20 mesh stainless steel wire mesh.

2 In the screen fill the height of 100 mm 20 mm to 30 mm ceramic ball or porcelain ring.

3 check the desulfurizer, and consider whether you need sieving.

4 with a special tool, the desulfurization agent uniformly filled to the inside of the tower, should check whether smooth, uniform loading; such as the need to enter the tower work, must first lay on board on the catalyst, stepped on to work on board.

5 sorbent surface should be porcelain ball or a ceramic ring is covered with a layer of 10 ~ 20 mesh stainless steel wire mesh and 50 mm thick, 20 mm to 30 mm, in order to prevent the air blowing desulfurization agent, and the uniform airflowdistribution.

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