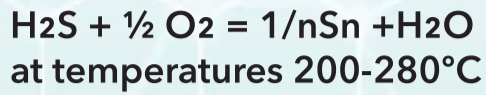




TECHNOLOGY OF SELECTIVE OXIDATION OF HYDROGEN SULFIDE TO SULFUR

The technologies using the catalyst AOK-75-44 are based on the reaction of hydrogen sulfide selective oxidation to sulfur.



For gases with hydrogen sulfide content up to 2% vol, one-stage processing is possible - in the fixed-bed catalytic reactor. Gases with hydrogen sulfide content higher 2 % vol are treated in reactors in-series or in one multiple-section reactor with batch oxygen feeding to each reactor.

Technologies using catalyst AOK-75-44 are applied for Claus tail gas treatment at Russian refineries. Alternative application is the treatment of sweet natural gases, associated gases, chemical industry emissions and biogases.



Katalizator JSC
1 Tikhaya St, Novosibirsk 630058, Russia
Tel: +7 (383) 306-62-76 | Fax: +7 (383) 306-62-72

info@katcom.ru | www.katcom.ru



OUR SOLUTIONS FOR SULFUR REMOVAL

SELECTIVE OXIDATION OF HYDROGEN SULFIDE TO ELEMENTAL SULFUR



FEATURES & BENEFITS

- High catalytic activity and selectivity of hydrogen sulfide conversion to sulfur at the range of 220-280°;
- Resistance to catalytic poisons;
- Thermal stability;
- Low sensitivity to excess oxygen and water vapor content in the processed gas;
- High operation stability during long-term lifetime;
- Non-reactivity towards deep oxidation of hydrocarbons, carbon monoxide and hydrogen ensures using in hydrogen sulfide removal processes without any special recovery of H₂S and resulting in slowing of deactivation caused by coking;
- Due to high resistance to hydrothermal aging the catalyst can be used in all types of reactors at sulfur recovery units;
- More than 12 years of manufacturing experience.



CHARACTERISTICS

Parameter	Standard
Appearance - Geometry - Color	Cylinders of red and brown color
Size, mm: - Diameter - Length	4-10 4-15

APPLICATION

Catalyst AOK-75-44 is intended for purification of various gases containing 0.3-15 % vol hydrogen sulfide in hydrogen sulfide oxidation processes.

FIELDS OF APPLICATIONS

- Refining industry
- Oil-producing industry
- Gas processing industry
- Gas production industry
- Metal manufacturing