



Technical Datasheet

H₂S SCAVENGER P

Description

H₂S Scavenger P is a powder zinc-based mixture which is used as hydrogen sulfide scavenger for water-based muds. H₂S Scavenger P reduce corrosion of downhole tools and surface equipment in oil-field which is related to H₂S gas. H₂S Scavenger P reacts relatively fast and is optimum for removing H₂S in shortest time.

Application

Main function of H₂S Scavenger P is decreasing the corrosion rate of drilling fluids and brines, reducing H₂S scavenger, and minimize the possibility of drill pipe or casing wear-out. It is recommended to be used in wells as a pre-treatment that are possible to produce H₂S gas. The product of reactions between H₂S gas and H₂S Scavenger P is inert ZnS sediments. H₂S Scavenger P is compatible with different types of drilling and workover fluids.

Advantages

- Compatible with different types of drilling fluids and oil-field brines (monovalent and divalent ions)
- Effective in different salinities
- Fast reactions
- Minimum effect on filtration and rheological properties of fluids
- No foam generation in water

Limitations

- It is recommended to be used in fluids with pH range of 11.5 to 12.5.
- In fluids with high pH (>11.5), excessive use of H₂S Scavenger P may cause rheological fluctuations.
- H₂S Scavenger P should not be used is drilling fluid with pH less than 7, as it may cause H₂S generation.

Treatment

Dependent to the environment of fluids, treatments may differ from 1 to 3 ppb as a pretreatment or treatment. 3.5 pound per barrel of H₂S Scavenger P can eliminate 500-600 ppm of H₂S gas. In drilling, completion or workover fluids, it is recommended, to use corrosion inhibitors and Oxygen-scavengers alongside with H₂S SCAVENGER P. Running pilot tests before adding H₂S Scavenger P is recommended.

Typical Properties

APPEARANCE	White Powder
SPECIFIC GRAVITY (20 Celsius degrees)	3.5-4.3
pH (1% Solution)	Min 7
Solubility	Max.5% in water 100% in HCl (10%)
Purity (Zinc content)	Min 47% wt

Packaging

H₂S Scavenger P is available in 25-KG SXS.