

Ironite Sponge

IRONITE SPONGE, a specially formulated iron powder, is designed for protection against the release of free H₂S at the surface when the mud becomes saturated with sulphides caused by an invasion from the formation or product degradation.

Typical Physical Properties

Physical appearance Black powder
 Specific gravity 4.5–4.6

Applications

IRONITE SPONGE is used as an H₂S scavenger. It is a specially formulated iron powder with an unique porous structure with approximately 10 square meters of reactive surface area per gram of IRONITE SPONGE.

The reaction between IRONITE SPONGE and H₂S results in the conversion of the H₂S molecule to mainly FeS₂ or other non-hazardous products depending on pH, temperature and pressure.

The reactions between IRONITE SPONGE and H₂S gas are dependent upon pH, concentration of the scavenger, and form and concentration of sulphide in the mud system.

The pH is the primary parameter in the reaction, and it should be below 7.0 for the reaction to occur at a desirable rate.

The material retains very little magnetism and will not be attracted to drill pipe or casing.

1 kg of IRONITE SPONGE can react out 0.74 kg of H₂S. Where H₂S is expected, it is recommended to pre-treat the mud system with 5.7 kg/m³ (2.0 lb/bbl) of IRONITE SPONGE.

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Advantages

- Effective H₂S scavenger

Toxicity and handling

HOCNF is available in the Norwegian database NEMS Chemicals.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS)

Packaging and storage

Standard pack unit: 22.7-kg (50-lb) sacks. Other pack unit: on request

Store in a dry well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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