

iron

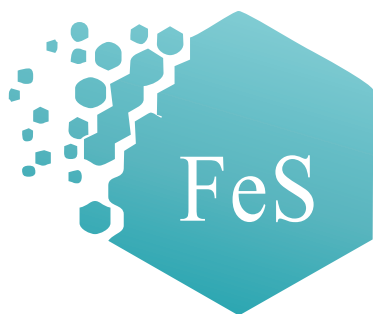
SULFIDE NANOPARTICLES

Iron sulfide nanoparticles are probably the most encountered semi conductive deposit types in oil and gas production and transmission pipelines. Numerous iron sulfides can exist, the nature of which is dependent on the environment and operating parameters. Iron sulfide is formed by the action of corrosive sulfur compounds on iron and steel in process facilities, particularly in vessels, storage tanks, and pipeline scraper traps. If such equipment has contained asphalt, aromatic tars, sour crude, high sulfur fuel oil, aromatic gases, and similar products, the potential exists for the formation of black or brownish colored pyrophoric iron sulfide scale, powder, or deposits on the equipment interior and in the collected residue and sludge.



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APPLICATIONS

- ✓ Gas and oil production systems
- ✓ Plug safety valves
- ✓ Reduce or accelerate corrosion



SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Formula: FeS
- ✓ Molecular Weight: 87.910 g/mol
- ✓ Color: Dark-Brown or Black
- ✓ Density: 4.84 g/cm³
- ✓ Melting Point: 1194 °C
- ✓ pH: 3.0-5.0

All types of particles size are available in micro and nano range.

CATALOGUE NO.

- NS6130-02-272



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