

DESCRIPTION

IS-1500 HF is a concentrated, oil-soluble emulsifier detergent formulated with a synergistic blend of surfactants, dispersants, and wetting agents in an aromatic solvent carrier. It is specifically engineered for the removal of agglomerated paraffin deposits, asphaltenes, and associated debris from the internal surfaces of crude oil pipelines. The product penetrates existing paraffin deposits, coats individual particles to prevent re-agglomeration, lifts deposits from metal surfaces, and maintains paraffin, asphaltenes, oils, greases, and solid debris in a dispersed/suspended state for efficient removal.

APPLICATIONS GUIDELINES
Recommended Method

- IS-1500 HF is applied via batch treatment. It may be pumped into the line pre-diluted with aromatic solvent or as separate components (chemical + solvent).

Dilution & Concentration

- Typical dilution: 10% to 25% active product in aromatic solvent, depending on deposit severity.
- Treatment rate: 50 – 1,000 ppm (based on oil volume) for pre-cleaning and maintenance programs.

Operational Parameters

- Minimum pig velocity: 3 miles per hour (4 – 5 feet per second) to ensure complete liquid contact with the pipe wall.
- Pig speed should allow maximum practical contact time for chemical penetration while maintaining effective flow dynamics.

Volume Estimation

- Use approximately 175 gallons of diluted IS-1500 HF per inch of pipeline diameter. This volume typically treats 40-to-50-mile sections, depending on the severity of the problem. Actual requirements should be field-optimized based on-line conditions and monitoring results.

ADVANTAGES & BENEFITS

- Superior Penetration & Dispersion:** Rapidly penetrates existing paraffin and asphaltene deposits while dispersing oils, greases, and solid debris from pipe walls.
- Anti-Reagglomeration:** Coats small particles to prevent them from sticking together, keeping deposits suspended for easy flushing.
- Enhanced Pigging Efficiency:** Significantly improves the effectiveness of standard cleaning pigs by allowing lifted and suspended material to be removed in a single pass.
- Broad Deposit Control:** Effective against a wide range of organic foulants including paraffin, asphaltenes, oils, greases, and associated solids.
- Operational Optimization:** Reduces pressure drops, flow restrictions, and pigging frequency while increasing pipeline throughput and overall system reliability.
- Flexible Application:** Can be batch-treated neat or pre-diluted, with adjustable concentrations to match deposit severity.

HEALTH & SAFETY

This product is not anticipated to pose any adverse health risks when used as intended.

For additional details, refer to separate Safety Data Sheets, available upon request.


TECHNICAL DATA/TECHNICAL PROPERTIES

Properties	IS-1500-HF
Color	Clear Amber Liquid
Odor	Mild Solvent Odor
Flash Point	146 (295)
Specific Gravity	0.91
Solubility	Oil Soluble
Water	Not Soluble

*All properties are typical and may vary.

Always adhere to the manufacturer's guidelines for the correct equipment fluid. Lubchem Specialties is not liable for any misuse of the product or improper application.