JMN SPECIALTIES, INC.
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PRODUCT BULLETIN

PIPE CLEAN 926

Pipeline Cleaning and Oil-Wet Solids Removal Concentrate

General Description

PIPE CLEAN 926 is a concentrated, water-dilutable pipeline cleaner designed to penetrate hydrocarbon deposits and mobilize oil-wet solids from pipelines, flowlines and related production equipment. The Product removes oily films from contaminated particles and disperses the released hydrocarbons and solids into the circulating cleaning fluid for removal by displacement, circulation or pigging. **PIPE CLEAN 926** is particularly suited for systems containing crude-oil residue, grease, waxy deposits, iron sulfide, black powder, sand and other oil-wet particulate contamination.

Features and Benefits

PIPE CLEAN 926 provides rapid wetting and penetration of oil-contaminated deposits while promoting the release and suspension of oil-wet solids. The concentrated cleaning system de-oils contaminated particles and disperses the released material into the aqueous cleaning fluid, facilitating removal from the pipeline. The Product is readily diluted with water, performs effectively at low field-use concentrations and is suitable for circulation, displacement and pigging applications. Its concentrated form reduces the volume of Product required for preparation of large cleaning batches.

Typical Applications

PIPE CLEAN 926 is intended for cleaning crude-oil pipelines, gathering lines, flowlines, production piping and associated process equipment. The Product may be used to mobilize oil-wet iron sulfide, black powder, sand, waxy residue, grease and other hydrocarbon-bound solids during pipeline circulation, displacement and pigging operations. It may also be used in tanks or mixing vessels where an aqueous cleaning solution is prepared before introduction into the system.

Directions for Use

Representative starting dosages are approximately 0.35–0.40 gallon per barrel of water for 6-inch flowlines, 0.40–0.45 gallon per barrel for 8-inch flowlines, and 0.60–0.65 gallon per barrel for 10-inch flowlines. These dosages provide approximately 0.83–0.94%, 0.94–1.06%, and 1.41–1.52% Product by volume, respectively. The optimum dosage should be determined according to the amount and composition of the contamination, available contact time, water quality and method of circulation or pigging. For other systems or smaller treatment volumes, a starting dosage of approximately 0.53 gallon per barrel of water, equivalent to approximately 1.25% by volume, may be evaluated. For batch preparation, multiply the selected dosage by the number of barrels of water in the mix tank. At a dosage of 0.63 gallon per barrel, add approximately 63 gallons of **PIPE CLEAN 926** to 100 barrels of water or approximately 315 gallons to 500 barrels of water. Introduce the Product into circulating water and mix until uniformly dispersed before pumping the cleaning solution into the line. Dosage may be increased or decreased based on field conditions, laboratory testing and observed cleaning performance. Adequate contact time and mechanical movement generally improve the removal of heavy or aged deposits.

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Compatibility

PIPE CLEAN 926 is generally compatible at recommended use dilutions with carbon steel, stainless steel and common pipeline materials. Compatibility with aluminum, galvanized surfaces, coatings, linings, seals, gaskets and elastomers may vary according to concentration, temperature and contact time. Conduct a representative compatibility test before extended exposure or use on sensitive materials. Avoid mixing the concentrate directly with strongly acidic, strongly alkaline, oxidizing or incompatible chemical products. When treating an operating system, evaluate compatibility with the process fluid and any other treatment chemicals before application.

Environmental and Regulatory Information

Prevent uncontrolled discharge of the concentrate or contaminated cleaning solution. Recovered cleaning fluids may contain crude oil, iron sulfide, black powder, and other production contaminants and must be characterized and managed in accordance with applicable federal, state, and local requirements. Regulatory status, transportation classification, and disposal guidance are provided in the current Safety Data Sheet.

Physical Properties

Appearance	Clear to slightly hazy liquid
Color	Light amber
Odor	Mild characteristic odor
Specific Gravity	Calculated approximately 0.95
Density	Calculated approximately 7.92 lb/gal
pH	Calculated 6.0–8.0
Water Solubility	Dispersible
Flash Point	Not determined; expected to be >93°C (>200°F)
Freeze Point	~0°C (32°F)

(Typical values; not a specification)

Availability

PIPE CLEAN 926 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

Review the current Safety Data Sheet before handling or using this Product. Observe all warnings on the container label. Wear chemical-resistant gloves and safety glasses or chemical splash goggles when handling the concentrate. Ensure adequate ventilation and avoid breathing mist or spray. Avoid contact with the eyes, skin and clothing, and wash thoroughly after handling. Keep containers tightly closed when not in use and protect the Product from freezing, excessive heat, sparks and open flame. If frozen, allow the Product to thaw completely and mix thoroughly before use. Do not mix with incompatible chemicals. Normal precautions for industrial chemicals apply.

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