

PRODUCT: ORB2000C

Paraffin Dispersant and Cleaning
Hydrocarbon Based Solvent



Generic Description

ORB2000C is a mixed structure, oil soluble paraffin dispersant.

General Information

ORB2000C is an oil soluble paraffin dispersant concentrate designed for use in tank cleaning and oil field applications. The product effectively disperses paraffin and oil wets solids into the oil phase to prevent accumulation in tubular goods and oil treating and storage vessels and pipelines. The oil soluble dispersant's and solvents in **ORB2000C** have proven effective in dispersing hydrocarbon based solids into a wide range of crude oils. **ORB2000C** will improve and enhance flow in paraffinic or asphaltic crude oils.

ORB2000C is recommended for use in formulating products for paraffin control in pumps, tubing, flow lines, oil treating vessels, storage facilities, and other surface equipment where paraffin and sludge deposits occur. This product may also be used to disperse paraffinic tank bottoms and in tank cleaning where the need to solubilize paraffinic residuals is required. **ORB2000C** will improve flow of crude oil in pipelines acting as a flow enhancer and not a drag reducer.

Suggested Formulation/Dosage Rate

ORB2000C is typically blended with xylene, toluene, or aromatic solvent (diesel or other) to provide a field strength product. A 1 to 3 dilution of **ORB2000C** in solvent is suggested as a starting formulation. Use concentrations of **ORB2000C** vary when added to emulsion breaker formulations. However, typical usage ranges from 3 to 10 percent depending on the individual treating requirements.

Typical Physical Properties

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Form: @ 70°F	Clear Yellow Liquid
Density: (lbs/Gal)	6.98
Flash Point: °F (TCC)	61
PH: (IPA:H2O)	n/a

Solubility	
Fresh Water	Dispersible
High TDS Brine	Dispersible
Isopropanol	Dispersible
Xylene	Soluble

APPLICATION INFORMATION

This suggested formulation of **ORB2000C** may be applied by either batch or continuous methods to meet individual system needs. In batch treating of producing wells, 3 to 10 gallons of this formulated product is treated down the annulus, followed by a flush of 1 to 2 barrels, or placing the well on circulation. Treating frequency will be determined by the severity of the down hole paraffin problem.

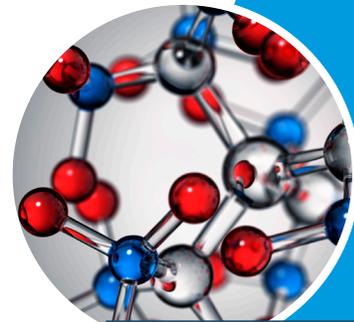
Paraffin tank bottoms in crude oil storage tanks may be successfully treated by adding 3 to 5 gallons of the formulated **ORB2000C** per 500 barrels of oil to the stock tank. The tank should then be rolled with an external pump or gas line. The addition of heat will greatly increase the effectiveness of this type treatment.



Advanced Chemistry

The performance of emulsion breaker formulations may also be enhanced by the addition of **ORB2000C**. In this application, the product prevents paraffin and other oil wet solids from accumulating at the interface in treating vessels. This often results in effective emulsion treatment.

ORB2000C with vegetable esters, keeps paraffin from reattaching to metal surfaces, even though still being formed.



Oil & Gas Operations



For the control of mild paraffin depositions, the formulated **ORB2000C** may be continuously injected. For flow enhancement, treatments of 500 to 10,000 ppm are required.

SHIPPING AND HANDLING

ORB2000C is a Flammable Liquid containing Light Aliphatic Naphtha and xylenes and is available in various container sizes. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet (MSDS) outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **ORB2000C**.

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