

PRODUCT: ORB2300

Degreaser Concentrate Water Based



Generic Description

ORB2300 is a mixed structure, oil soluble paraffin dispersant synergistically combining multiple chemistry's.

1. The first acts as a wedge between the wax crystals
2. The second changes the polarity of the crystals to a like charge causing them to want to stay away from each other.
3. The third distorts the edges of the wax crystals making it difficult for them to fit together.
4. Flow is greatly increased and paraffin related maintenance reduced.

General Information

ORB2300 is an oil soluble paraffin dispersant designed for use in 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 dispersants and solvents in **ORB2300** have proven effective in dispersing hydrocarbon based solids into a wide range of crude oils. **ORB2300** will improve and enhance flow in paraffinic crude oils.

ORB2300 Applications: pumps, tubing, flow lines, oil treating vessels, tank bottoms and any surface or sub-surface equipment

experiencing paraffin related issues. Heavy Oil with high paraffin content can be treated to reduce viscosity and increase flow. **ORB2300** is extremely effective at reducing near well bore blockage due to paraffin often resulting in production stimulation. **ORB2300** will improve flow of crude oil in pipelines acting as a flow enhancer and not a drag reducer.

The performance of emulsion breaker formulations may also be enhanced by the addition of **ORB2300**. **ORB2300** with vegetable esters keeps paraffin from reattaching to metal surfaces, even though sti II being formed.

Suggested Formulation/Dosage Rate

This product is ready to use and requires no dilution.

Application Information

This suggested formulation of **ORB2300** 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

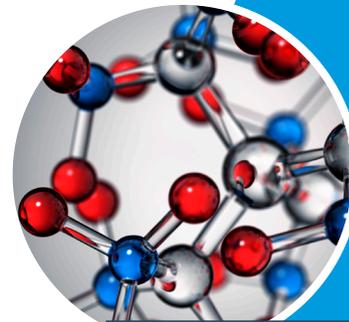
tanks may be successfully treated by adding 3 to 5 gallons of the formulated **ORB2300** per 500 barrels of oil to the stock tank. The tank should then be rolled with an external pump or gas line. The addition of heat will greatly increase the effectiveness of this type treatment. For the control of mild paraffin depositions, the formulated **ORB2300** may be continuously injected. For flow enhancement, treatments of 500 to 10,000 ppm are required.

Product Packaging and Part Numbers

	Product Packaging and Part Numbers
ORB2100C-US5	5 Gallon Non-Returnable Container
ORB2200C-US30	30 Gallon Non-Returnable Container
ORB2200C-US55	55 Gallon Non-Returnable Container
ORB2200C-US320	320 Gallon Non-Returnable Container



Advanced Chemistry



Oil & Gas Operations



Shipping and Handling

ORB2300 is a Flammable Liquid containing Light Aliphatic Naphtha and xylenes and is available in containers as listed below in "Packaging and Part Numbers". 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 outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **ORB2300**.

Typical Physical Properties

Typical Physical Properties	
Form:	70°F Clear Liquid
DENSITY:	(lbs/Gal) 6.25
FLASH POINT:	°F (TCC) 50
pH:	(IPA:H2O) n/a

- Fresh Water > Dispersible
- High TDS Brine > Dispersible
- Isopropanol > Dispersible
- Xylene > Soluble

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