



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-16-2064-210
Demulsifier Premium

Description :

RXSOL export quality Demulsifiers are very effective emulsion breakers to separate water in crude oil emulsion. Its excellent performance formulations enable the quick separation of produced water from oil.

Chemically RXSOL Demulsifiers reduce the interfacial tension between hydrocarbon and water, which helps to separate water content quickly.

RXSOL Demulsifier is a totally organic liquid formulation of surfactants and is soluble in toluene, Xylene, Aromatic solvent, crude oil for the demulsification of water in oil and oil in water, capable of performance at room temperature, but with improved speed and percentage of oil removed when applied at temperatures near 60 deg. C (140 deg. F). RXSOL crude oil demulsifier destabilizes the oil-water interface that surrounds each water particle in the emulsion, replaces the emulsifier molecules (if any), and allows the water to coalesce. RXSOL crude oil demulsifier (demulsification of crude oil) is a completely combustible, non-abrasive; non-ash-forming treatment, which will improve the quality of the fuel it is added to. The effects of crude oil demulsifier in demulsification of water in crude oil emulsions are based on relative rates of water separation were recognized through emulsion breakers.

Application :

RXSOL DEMULSIFIER is Water-In-Oil Demulsifiers, which can be used as stand-alone Demulsifiers to separate Formation Water from Crude Oil Emulsion. There are vast differences and Characteristics of Crude Oils produced in various Fields. Use and application Oil Soluble Demulsifier Testing & Selection is accomplished by standard Bottle Tests in Lab followed by Field Trial Tests. They are commonly used in the processing of crude oil for effectively separating formation water from emulsions in crude oil.

Use and Dose :

Dose recommendations have to be made on a case-by-case basis. The dosage of RXSOL DEMULSIFIER prescribed to break a particular emulsion varies from as little as 1 ltr per 20,000 Ltrs (50 ppm) of oil to as much as 1 Ltr per 10,000 ltrs (100 ppm) of oil. A few companies have even found that 20 ppm was more effective than the higher dosages, so we suggest adding the lower levels to your laboratory bench tests to verify the correct dosage for the specific application. Finding the most cost-effective dosage, as well as determining the best conditions of temperature, slow mixing, settling time, etc., is best done in the laboratory, using a sample of the actual oil or waste and a sample of Demulsifier.

Methodology for Evaluation of Demulsifier :

Step 1 :Treat 100ml of the emulsion with 40 mg/litre of Demulsifer, (using 1% w/v solution in xylene in 100 ml graduatd conical tube) and give 100 shakes of approximately 12 in stroke

Step 2 : Place treated emulsion in water bath maintained at 70 +10C for a period of 15 minutes and allow it to settle for 5 minutes at 30+20C. measure the quantity of clear water settled

Step 3 : Conduct a blank test with untreated emulsion under condition similr to treated emulsion

Step 4 : Subtract the water separator if any in blank test from treated sample and denote it as V. Similarly subtract the water separated from blank from total water present in emulsion and denote it Vo.

Report Efficiency Percentage as Follow : % Efficiency = $(V/ Vo) \times 100$

Physical Data:

Physical appearance	Clear free flowing pale yellow,brown colour homogeneous liquid
Active Ingredient	More then 40 Percent
Specific Gravity @ 25° C	0.92 ± 0.02
Viscosity @ 25° C	< 30 cps [cst]
Pour Point	< 0° C
ph range	5.0 - 8.0
Solubility in Hydrocarbons	Soluble
Solubility in water	Insoluble
Flash point ° C	>60° C
Shelf Life	Minimum two years
Packing	210 Ltrs.
Storage Condition	-15 to 55 Degree C

Advantage :

- Contains surface-active materials
- Separates water from oil
- Free from defilements
- Excellent stability
- Precise chemical composition
- Easy to Handle.

Storage and Handling :

RXSOL DEMULSIFIER shall be stored in closed containers away from direct sunlight at ambient temperature. During handling, direct contact with human body is to be avoided. Safety goggles and gloves are recommended for safe handling. The spillage can be handled with dry absorbent like sand, sawdust, etc. On ingestion / eye contact with the product, medical attention should be sought immediately.

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