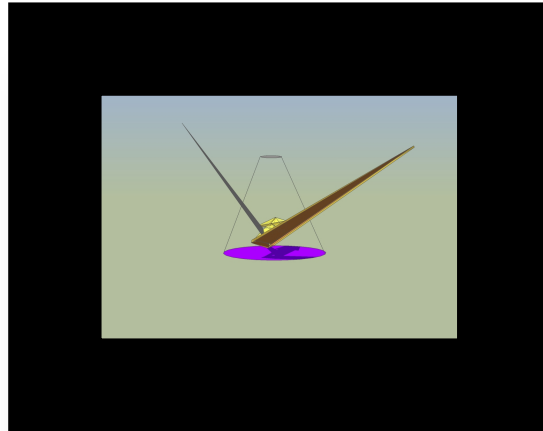


UNIQUE DRILLING FLUIDS

1222 Commerce St. STE. 2417 Dallas, TX 75202: 214-741-1100: info@uniquedrillingfluids.com

Product Data



MUL-EASE I

PRIMARY EMULSIFIER

MUL-EASE I is Unique Drilling Fluids primary emulsifier, which is composed of glycerides and fatty acids. Basically its chemistry involves the reduction of the surface tension in aqueous or organic liquids to extremely low levels imparting water in oil emulsion stability. With its hydrophilic, water loving head and hydrophobic, oil loving tail It supplements the performance of the secondary emulsifier (**MUL-EASE II**) by encircling each solids particle with an oil layer. Emulsion break down is prevented due to solids water wetting and therefore the emulsion stability remains intact. This product also imparts fluid loss.

Application

MUL-EASE I should be used in situations where mud stability is lower than required. Obviously the more sophisticated the problem the larger quantity of emulsifier is required. On the contrary, we recommend a starting point of 6 pounds per barrel. This will provide sufficient emulsion stability for normal situations. **MUL-EASE I** is used in conjunction with **MUL-EASE II**. **MUL-EASE I** can also be used in a 50/50 oil base mud system but a higher concentration is required. Usually it is used in the 6-8 pounds per barrel whereas **MUL-EASE II** is

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GIVES THE WELL WHAT IT NEEDS

used at 2-3 pounds per barrel. Please contact Unique Drilling Fluids for any questions concerning the application of MUL-EASE I.

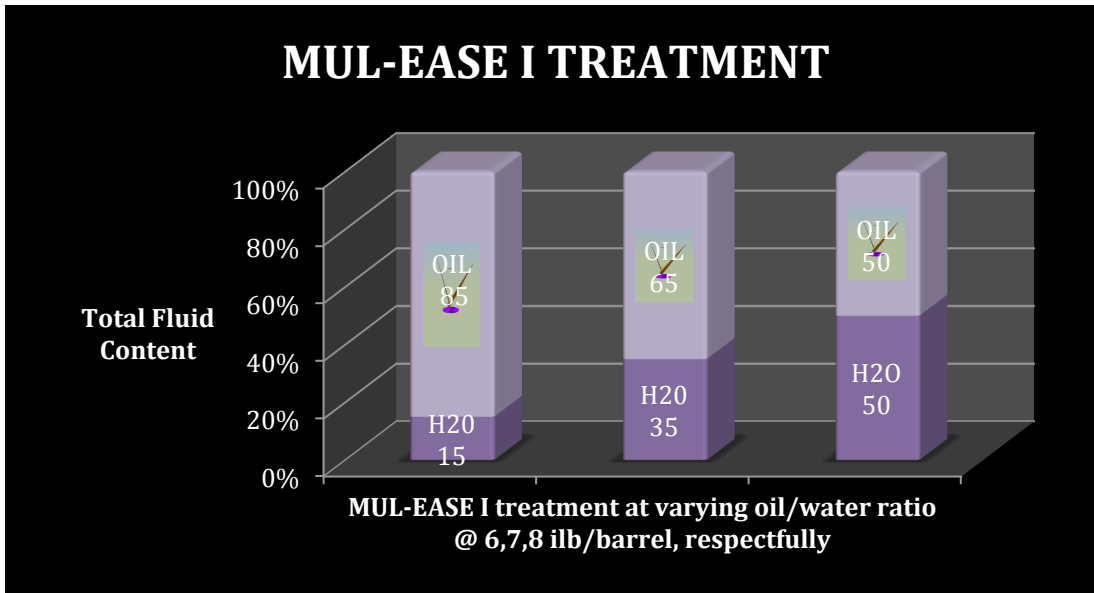


FIGURE 1. The bar above displays oil/water ratios and the quantity of MUL-EASE I needed to provide sufficient emulsion stability at 6,7,8 ilb/Barrel respectfully.

TYPICAL PHYSICAL PROPERTIES

Appearance:	amber liquid
Specific Gravity @ 20 Deg C:	0.90 to 0.96 mg/ml
Flash Point:	Above 150 Deg F
Solubility:	soluble in oil, insoluble in water
Pour point:	Below 0 Deg C
pH:	5.5 to 6.5

PACKAGING

MUL-EASE I is packaged in 55 gallon drums.

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