

OIL AID-AS-32

ANTI-SLUDGE AGENT

DESCRIPTION

OIL AID-AS-32 is a highly effective anionic surfactant designed to prevent sludging in acidizing operations. Its properties are:

Form	Clear, Amber Liquid
Specific Gravity at 60° F	1.0
Flash Point	Greater than 175° F
Pour Point	< -20° F
Viscosity at 60° F	93 cps
pH	1.0
Charge	Anionic
Solubility:	
in Water	Emulsifiable
in Oil	Soluble
in Acid	Dispersible

APPLICATION

OIL AID-AS-32 is an effective anti-sludge agent in a wide range of crude oils. In some crudes, the product also has acid nonemulsifying properties and will tend to water wet the solids and formation to help the acid react quickly.

RECOMMENDED TREATMENT

Dosage will vary from 5 to 25 gallons of OIL AID-AS-32 per 1000 gallons of hydrochloric acid depending on the strength of the acid and the sludging properties of the crude oil. The product can be added directly to the acid holding tanks prior to use or mixed on the fly as the treating fluid is pumped downhole. As with any product of this type, tests should be run with OIL AID-AS-32 and the specific crude to determine the most effective dosage.

The following procedure is commonly used to test the performance of anti-sludge chemicals.

1. Preheat inhibited acid and crude oil separately to 150° F.
2. Pour 50 mls of heated inhibited acid and recommended dosage of anti-sludge chemical into a Waring Blender and mix at low speed for 10 seconds.
3. Add 50 mls of crude oil and mix at high speed for 3 minutes.
4. Pour contents into 100 ml graduated centrifugal tube and place in preheated 150° F water bath for 24 hours.
5. Record emulsion breakout volume 2 minutes after placing in water bath.
6. After 24 hours, record total volume of mixture and emulsion breakout volume before pouring mixture through an 80 mesh brass wire screen.
7. Record filtrate volume; observe appearance and consistency of sludge on screen.



8. Determine percent sludge by: $100\% - \text{filtrate volume} \times 100 = \% \text{ of sludge total volume}$

HANDLING

OIL AID-AS-32 is a skin and eye irritant. Care should be taken to avoid contact with skin and eyes. Wear goggles or face shield when handling. Avoid breathing vapors. Use with adequate ventilation. Do not take internally. Keep away from heat and open flames. In case of contact, wash skin with soap and water; for eyes, flush with large amounts of water for at least 15 minutes and get medical attention. Remove contaminated clothing and wash before reuse.

PACKAGING

OIL AID-AS-32 is available in 55-gallon drums.

