



OIL AID-AG-20

ACID GELLING AGENT

DESCRIPTION

OIL AID-AG-20 is a cationic surfactant used to thicken 15% hydrochloric acid used in acidizing or fracturing treatments.

OIL AID-AG-20 is an amber liquid with a density (at 60°F) of 7.39 ppg, pH of 5.5, flash point (TCC) < 60°F, and pour point (2000 cps) -4°F. It is soluble in crude oil, HCl, and fresh water and dispersible in high TDS brines.

APPLICATION

OIL AID-AG-20 should be added to the acid and mixed thoroughly to ensure uniform distribution.

RECOMMENDED TREATMENT

It is recommended that OIL AID-AG-20 be used in a range of 2 (20 gal per thousand gallons of HCl) to 4% (40 gal per thousand gal of HCl). See rheological data below.

SAFETY AND HANDLING

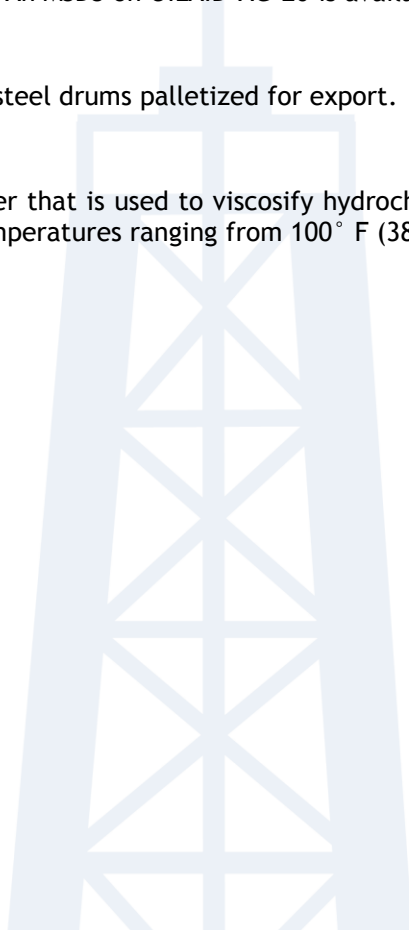
OIL AID-AG-20 is a flammable liquid. An MSDS on OIL AID-AG-20 is available.

PACKAGING

OIL AID-AG-20 is packaged in 55 gal steel drums palletized for export.

DESCRIPTION

OIL AID-AG-2 is a proprietary polymer that is used to viscosify hydrochloric acid in strengths ranging from 15 to 28% and bottom hole temperatures ranging from 100°F (38°C) to 300°F (149°C).





RHEOLOGICAL DATA for OIL AID-AG-20

Test Conditions:

Acid: 15% HCl
Temperature: As Indicated
Additive Concentration: 20 GPT, 40 GPT
Instrument: Fann 35, Heat Cup

<u>Temperature (° F)</u>	<u>Concentration of</u>		<u>Viscosity (cps)</u>		
	<u>Gellant (GPT)</u>		<u>100/sec</u>	<u>170/sec</u>	<u>511/sec</u>
80	20		38	30	18
100	20		32	25	15
125	20		28	23	15
150	20		14	10	7
80	40		97	70	36
100	40		92	68	36
125	40		60	47	29
150	40		30	25	17

