

## INFORMATION

# OIL AID-FR-1

ACID FRICTION REDUCER

### DESCRIPTION

OIL AID-FR-1 is an oil-external emulsion for use as a friction reducer in water-based fracturing fluids. It yields rapidly due to built-in activators, and can also be used as a viscosifier. The properties of OIL AID-FR-1 are:

Form	White-Yellow Liquid
Specific Gravity, 60 °F	1.07
Pour Point, °F	- 20 °F
Ionic Charge	Anionic
pH	7.0

### APPLICATION

OIL AID-FR-1 will give a 70-80% friction reduction in fresh water fracturing fluids. It can be added to the fluid in the blender and begins yielding in seconds. The product is not normally adversely affected by shear.

### RECOMMENDED TREATMENT

Less than 1 gal of OIL AID-FR-1 per 100 gal (gpt) of fracturing fluid will reduce friction by up to 80%. Two to five gpt will viscosify fresh water drilling fluids to prevent sloughing and carry drill cuttings.

### PACKAGING

OIL AID-FR-1 is available in 55 gal steel drums and 5 gal steel cans.

OIL AID-FR-1 is a Messina trademark