

OIL AID-FR-20

ACID FRICTION REDUCER

DESCRIPTION

OIL AID-FR-20 is a cationic, polyacrylamide co-polymer for use as a friction reducer in acid, brines, high hardness and fresh waters. Its properties are:

Form	Opaque Liquid
Spec. Gr. @ 60 °F	1.02 - 1.07
Pour Point	-10° F
Flash Point	> 210 °F
pH (neat)	4.9
Ionic Nature	Cationic

APPLICATION

OIL AID-FR-20 gives up to 70% friction reduction in 15% HCl and weak acid solutions and works well in high strength acids at temperatures above 300 °F. It contains an activator that allows it to rapidly go in to solution and begin yielding immediately. Avoid prolonged storage of an OIL AID-FR-20/acid mixture at temperatures above 100 °F. Under these conditions, degradation of the polymer will begin in 8 hours in 15% HCl and in 4 hours in 28% HCl. Below 100 °F, acid solutions retain friction properties for up to 16 hours.

TREATMENT

The normal concentration of OIL AID-FR-20 in weak acid and 15% HCl is 1 to 2 gallons per 1000 gallons acid (gpt). Strong acid requires from 2 to 4 gpt to obtain a 65% friction reduction. In fresh water, less than 1 gpt gives excellent friction reduction. Brines and high hardness water require slightly higher concentration.

OIL AID-FR-20 gives the best friction reduction when injected directly from the drum into the centrifugal pump. Be sure that drums are well agitated (e.g., with an air lance) before beginning treatment.

HANDLING & PACKAGING

No special precautions are necessary for handling OIL AID-FR-20 but contact with eyes and skin should be avoided.

OIL AID-FR-20 is available in 55-gallon steel drums and 5-gallon metal cans.

OIL AID-FR-20 is a Messina trademark