



OIL AID-FL-59

HYDROCARBON SOLUBLE FLUID LOSS ADDITIVE

DESCRIPTION

OIL AID-FL-59 is a hydrocarbon soluble fluid loss additive for use in water or acid based fracturing fluids.

OIL AID-FL-59 is a hydrocarbon resin ground to a nominal 100 mesh size, however, in order to ensure effectiveness, OIL AID-FL-59 can be SELECTIVELY ground to mesh sizes within the following ranges: Coarse (10 - 70 mesh), Medium (70 - 140 mesh), Fine (170 - 325 mesh), or can be ground to a specific (controlled) mesh size to meet the demands of the customer.

Form	Light yellow powder
Specific Gravity	1.05 - 1.09
Bulk Density	32 lb/cu ft
Solubility	Water insoluble, Oil soluble
Melting Point	311°F (199°C)

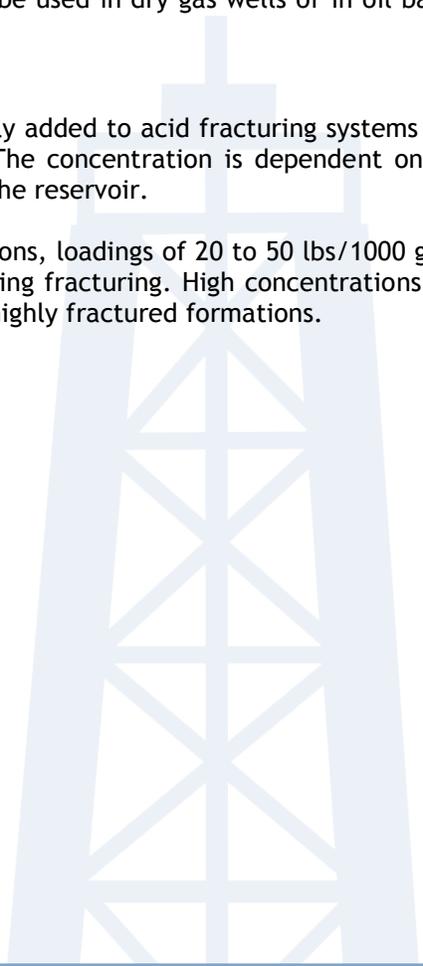
APPLICATION

OIL AID-FL-59 is an effective fluid loss additive and diverting agent for use in fracturing and acidizing applications in oil and/or condensate producing wells where rapid and complete recovery is required. OIL AID-FL-59 should not be used in dry gas wells or in oil based treating fluids due to the solubility of the material.

RECOMMENDED TREATMENT

OIL AID-FL-59 should be continuously added to acid fracturing systems at a rate of approximately 20 to 300 lbs/1000 gallons of fluid. The concentration is dependent on the size and quantity of the pores and/or hairline fractures in the reservoir.

In water-based fracturing applications, loadings of 20 to 50 lbs/1000 gallons may be used to control fluid leak-off to the formation during fracturing. High concentrations (100 to 400 lbs/1000 gallons) may be required for treatment of highly fractured formations.





In all applications, OIL AID-FL-59 should be continuously added to the frac system base fluid as the fluid is being pumped downhole to avoid "floating out" of the material due to its low specific gravity.

HANDLING

OIL AID-FL-59 may cause irritation to the eyes and respiratory system. Chemical goggles and a dust mask are recommended while handling this material. Wash eyes with water for 15 minutes in the event of OIL AID-FL-59 contact, and consult a physician.

Dust from OIL AID-FL-59 dust is flammable and explosive, therefore the material must be kept away from an open flame.

PACKAGING

OIL AID-FL-59 is packaged in double walled 50 lb (22.7 kg) bags.

OIL AID-FL-59 is a Messina trademark

