# OILAID-DA-60

## OIL/WATER SOLUBLE DIVERTING AGENT

### DESCRIPTION

OILAID-DA-60 is a temporary plugging agent which is soluble in liquid hydrocarbons and in water-base fluids. OILAID-DA-60 is a highly successful diverting agent for bottom hole temperatures up to 122°C/250°F (the melting point of OILAID-DA-60). Its properties are:

| | |
|---|---|
| Form | White, flaky |
| Odor | Aromatic |
| Molecular Weight | 122.1 |
| Melting Point | 122° C |
| Boiling Point | 249° C |

### APPLICATION

OILAID-DA-60 is recommended for use in wells where the type of production fluid is unknown. OILAID-DA-60 will dissolve in either oil or water. However, as the solubility is much higher in oil than water, a water-base fluid should be used as the carrier.

The approximate solubility of OILAID-DA-60 (in pounds per 1000 gallons of fluid) in oil, water and 15% hydrochloric acid is shown below:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Oil | 680 | 1100 | 1800 | 1900 | 4400 | 7000 | -- |
| Water (fresh) | 37 | 54 | 78 | 110 | 160 | 240 | 350 |
| HCl (15%) | <10 | 15 | 25 | 41 | 70 | 120 | 200 |

The length of time for a plug of OILAID-DA-60 to dissolve will depend upon the fluid movement past the plug. A tightly compacted plug will require more time to dissolve than a loose plug located close to the wellbore. Generally, the plug is of sufficient permeability to allow slow fluid movement through the plug to the wellbore.

The average dynamic half life of OILAID-DA-60 at 130°F is 4.5 hours, at 180°F is 2 hours, and at 212°F the half life is 1.5 hours.

## RECOMMENDED TREATMENT

It is recommended that OILAID-DA-60 be pumped in a water-base fluid at a concentration of between 1.5 to 2 ppg. Normally, between 40 and 320 pounds has been found to adequately provide good blocks using a normal factor of 5 to 10 pounds per foot.

Recommended concentrations for OILAID-DA-60 for the following conditions:

| TEMP °F | UNFRACTURED ZONE | | FRACTURED ZONE | | PERFORATION .375 IN | |
|---|---|---|---|---|---|---|
| Below 200 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| 200-250 | 2.0 | 1.0 | 3.0 | 1.5 | 2.0 | 1.5 |
| 250-350 | 3.0 | 1.5 | 4.0 | 2.0 | 3.0 | 2.0 |

## PACKAGING

OILAID-DA-60 is packaged in heavy duty 50 lb (25 kg) bags.

OILAID-DA-60 is a Messina trademark