

INFORMATION

OIL AID-DA-60

OIL/WATER SOLUBLE DIVERTING AGENT

DESCRIPTION

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

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

APPLICATION

OIL AID-DA-60 is recommended for use in wells where the type of production fluid is unknown. OIL AID-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 OIL AID-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 OIL AID-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 OIL AID-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 OIL AID-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 OIL AID-DA-60 for the following conditions.

TEMP °F	ZONE	UNFRACTURED FRACTURED				PERFORATION .375 IN
		ZONE		ZONE		
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

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

OIL AID-DA-60 is a Messina trademark