

INFORMATION

OIL AID-WG-41

LOW RESIDUE WATER GELLANT

DESCRIPTION

OIL AID-WG-41 is a low residue gelling agent designed for use in hydraulic fracturing employing a batch-mix operation. Its properties are:

Form	Light-tan, Powder	Free-flowing
Specific Gravity	1.3	
pH (1% Solution)	6 - 7	
Charge	Nonionic	

APPLICATION

OIL AID-WG-41 is a polysaccharide derivative modified to hydrate at a slower rate than conventional polysaccharide materials. This allows batch mixing in a tank to form a smooth and uniform gel. The solution also has a lower amount of insoluble residue than other polysaccharides, thus minimizing permeability damage in the formation or proppant pack.

Viscous solutions of OIL AID-WG-41 can be used as a linear frac fluid or may be readily crosslinked (OIL AID-WX-10 is recommended) to form stable, viscoelastic gels at temperatures up to 300° F and above. Crosslinking yields high gel strengths, providing excellent carrying capacity for transport of proppant. A built-in breaker, OIL AID-WB-10 can be added to break back the gelled fluids to a water-thin viscosity.

OIL AID-WG-41 also acts as an effective friction reducer and may be used in all waters or brines used in conventional frac operations including KCl and 11.6 ppg CaCl₂.

RECOMMENDED TREATMENT

Add 10 to 80 lb of OIL AID-WG-41 to 1000 gal make-up water. After the gelling agent has been fully dispersed, the dissolving rate can be increased by adjusting the fluid pH below 8.0. High concentrations of OIL AID-WG-41 may be crosslinked after passing through the blender. This crosslinking is instantaneous, assuring immediate prop transport performance. Low gel concentrations (15 gpt) may be crosslinked in the tank.

HANDLING

OIL AID-WG-41 is essentially non-toxic but inhalation and skin contact may cause irritation. Remove to fresh air or wash exposed area with soap and water. Goggles should be worn while handling. Dust is an eye irritant and may cause eye injury.

In case of eye contact, flush with large amounts of water for 15 minutes. If irritation persists, seek medical attention.

PACKAGING

OIL AID-WG-41 is packaged in 50 lb multi-wall paper sacks.

OIL AID-WG-41 is a Messina trademark