

GA-40W

GELLING AGENT

Description

GA-40W is a Premium Grade guar gum that has been manufactured specifically for fracturing applications. GA-40W is dispersible, will not lump or “fish-eye” and can be added rapidly to the base fluid. The maximum viscosity of GA-40W batch mixed gels is reached within a few minutes. GA-40W **does not** contain an internal enzyme breaker.

Properties

Form: Powder	Chemical Family: Galactomannan
Color: Cream	Solubility: Forms a gel in water
Odor: Mild	Bulk Density: 35 lbs/ft ³
Charge: Nonionic	Flash Point: None

Application

GA-40W is designed for batch mixed gels with continuous re-circulation. Add GA-40W through a clean eductor or into the blender tub. GA-40W is typically used at 5-20 lbs. per 1000 gals. to reduce friction pressure or 25-60 lbs. per 1000 gals. when a linear or cross-linked gel is desired. The table below can be used to determine the amount of gel required for a particular viscosity. GA-40W may be cross-linked using CL-3, CL-141, CL-142 and CL-170.

GA-40W, lb/Mgal	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>
Viscosity, cP*	5.0	10.0	21.5	37.0

*as measured using a Fann Model 35A

Compatibility

GA-40W is nonionic and is compatible with all known frac fluid systems and additives.

Handling/Storage

Store in a dry location. Opened bags should be tightly resealed. GA-40W is non-toxic and virtually harmless. The dust may be irritating to the eyes and nose. A paper dust mask, safety glasses and cloth gloves are recommended during handling. Refer to Material Safety Data Sheet (MSDS) for handling and hazard data.

Packaging

GA-40W is packaged in 50 lb. bags, 40 bags per pallet, 2000 lbs. per pallet, stretch wrapped.