



## PRODUCT DATA

### EnerFrac™ G-30

Gelling Agent

#### Description:

EnerFrac™ G-30 is a Premium Grade CMHPG (carboxymethyl hydroxypropyl guar) that has been manufactured for fracturing applications. EnerFrac™ G-30 is dispersible, will not lump or “fish-eye” and can be added rapidly to the base fluid. EnerFrac™ G-30 **does not** contain an internal enzyme breaker.

#### Physical Properties:

Form: Powder  
Color: Cream  
Odor: Mild  
Charge: Anionic

Chemical Family: Galactomannan  
Solubility: Forms a gel in water  
Bulk Density: 35 lbs/ft<sup>3</sup>  
Flash Point: None

#### Application:

EnerFrac™ G-30 is designed for batch mixed gels with continuous re-circulation. Add EnerFrac™ G-30 through a clean eductor or into the blender tub. EnerFrac™ G-30 is typically used at 25-60 lbs. per 1000 gallons. The table below can be used to determine the amount of gel required for a particular viscosity. EnerFrac™ G-30 may be cross-linked using EnerFrac™ X-Link 160.

EnerFrac™ G-30, lb/Mgal	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>
Viscosity, cP*	5.5	10.0	20	32	46	62

\*as measured using a Fann Model 35A

#### Compatibility:

EnerFrac™ G-30 is anionic. Care must be taken when used with strongly cationic additives. A compatibility test is recommended when using cationic additives with this gelling agent.

#### Handling and Storage:

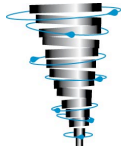
Store in a dry location. Opened bags should be tightly resealed. EnerFrac™ G-30 is non-toxic and virtually harmless. The dust may be irritating to the eyes and nose. A paper dust mask, safety glasses and cloth gloves are recommended during handling. Refer to Material Safety Data Sheet (MSDS) for handling and hazard data.

#### Packaging:

EnerFrac™ G-30 is packaged in 50 lb. Bags, 40 bags per pallet, 2000 lbs. per pallet, stretch wrapped.

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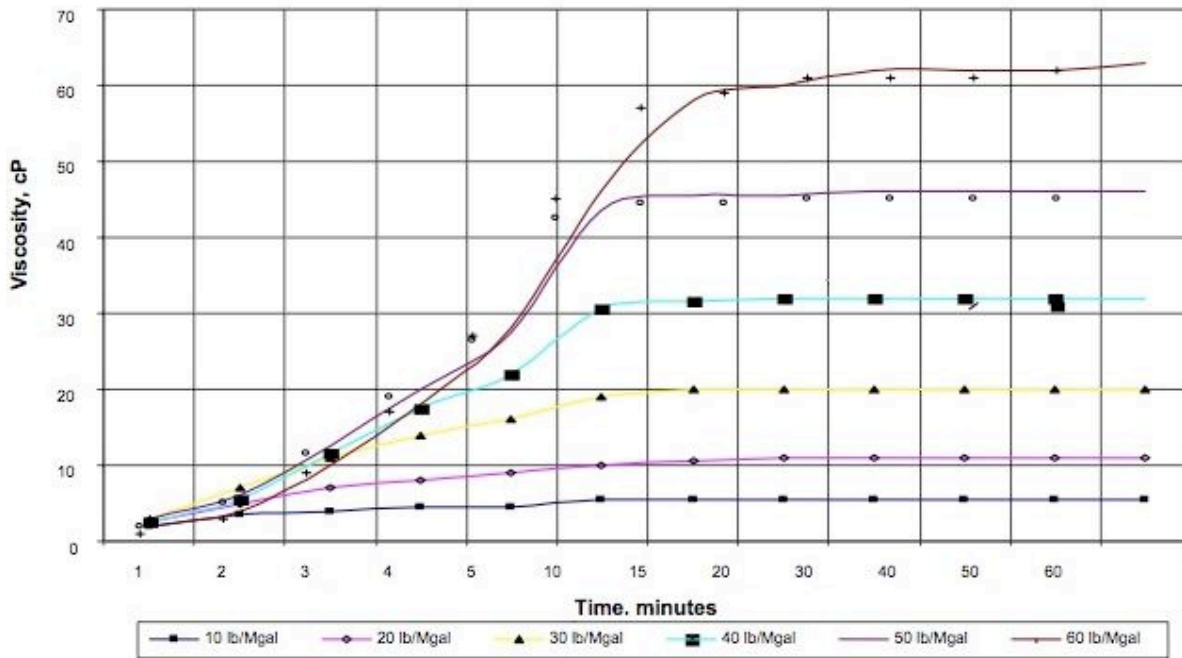
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**EnerFrac™ G-30 Performance Data**

Time mins.	Viscosity, cP					
	EnerFrac™ G-30 Loading (lb/Mgal)					
	10	20	30	40	50	60
1	2	2.5	3	2.5	3	2
2	3.5	5	7	5.5	6	4
3	4	7	11	11.5	12.5	10
4	4.5	8	14	17.5	20	18
5	4.5	9	16	22	27.5	28
10	5.5	10	19	30.5	43.5	46
15	5.5	10.5	20	31.5	45.5	58
20	5.5	11	20	32	45.5	60
30	5.5	11	20	32	46	62
40	5.5	11	20	32	46	62
50	5.5	11	20	32	46	62
60	5.5	11	20	32	46	63

**Hydration Rate of EnerFrac G-30**



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