

# WG-111L

## Water Gelling Agent



### Applications:

**WG-111L** is a rapid hydrating, ultra clean, high yield guar slurry that when added to water will increase the viscosity of the resulting mixture. The high quality and purity of WG-111L allow lower polymer loadings (15 lb) to be achieved, resulting in cleaner, higher conductivity frac packs. The viscosity of the gelled water solutions can easily be increased by the addition of a metallic crosslinker.

WG-111L is normally run between 3.75 GPT and 7.5 GPT.

### Properties:

Appearance ..... Beige liquid  
Solubility ..... Soluble in water and brines  
Density ..... 8.51 lb/gal

#### BASE GEL VISCOSITIES:

WG-111L Loading (GPT)	3.75	5.0	6.25	7.5
Viscosity @ 511/s (cp)	12	18	23	33

### Advantages:

- Allows for use with on-the-fly systems.
- Highly refined rapidly hydrating guar.
- Eliminates possibility of “fish eyes” that can occur with powders.
- No hydration effects seen up to 7% KCl.
- Enzymatically degradable.
- Can be cross-linked with a borate system.
- Gels methanol water systems up to 10%.
- Reduces fluid leakoff.

### Limitations:

- Guar polymer precipitates with methanol concentrations over 10%.
- Guar polymer is susceptible to biological degradation.

### Handling Precautions:

- Minor irritation may result on skin if exposed.
- Can be quite slippery if spilled on ground.

### Mixing & Blending Instructions:

- WG-111L should be added on the suction side of the blender or other high-shear mixing device.

