

### SCOPE AND APPLICATION

This method is to be used when determining hydration rate of guar gum slurry for the purpose of Quality Assurance.

### APPARATUS

- Blender container
- 30 cc Syringe
- Scale (0.01 g)
- Timer
- Graduated Cylinder
- Variable speed mixer
- Fann 35

### METHOD

1. Shake/Invert slurry container to assure that product is well dispersed
2. Weigh 100mL sample of slurry
3. Calculate density by dividing weight by 100; record density
4. Draw exactly 10 times the slurry density into a 30 cc syringe
5. Place 1000 mL of 2% KCl solution (1020.0g) into a blender container
6. Place blender container on variable speed mixer
7. Start mixing the 2% potassium chloride brine solution
8. Adjust blender speed to ~2500 rpm (1.5 dial setting)
9. Allow solution to mix for 30 seconds to reach set speed
10. Add contents of the syringe into the blender container
11. Let mix/hydrate for 1 minute
12. Transfer to Fann 35 Viscometer cup and set speed at 300 rpm and record viscosity readings at: 3, 6, 10, 30 and 60 minutes

### SPECIFICATIONS

Appearance:	Tan Suspension
Specific Gravity:	1.056 ± 0.007
Slurry Viscosity (R1B1, 100s @ 72°F):	185-320 cPs
BTEX Content:	None
Active Concentration	4.0 lbs/gallon

### PERFORMANCE (FANN 35 Viscosity, 40 ppt gel, 2% kcl, 300 rpm, cPs)

PRODUCT	3 MIN	6 MIN	10 MIN	30 MIN	60 MIN
GA-15L	36 ±2	38 ±2	40 ±2	42 ±2	44 ±2