

# VARIFLO<sup>®</sup> QD

## QUICK DISPERSING GUAR GUM

### DESCRIPTION

VARIFLO QD is a coarse granular, high-viscosity blend of guar gum formulated for easy and quick dispersion in drilling applications. Coarser granules prevent lumps or encapsulation.

### CHARACTERISTICS

- Biodegradable
- Easy to mix in brackish water
- High viscosity formula
- No lumping while mixing
- Quick dispersing

### MIXING AND APPLICATIONS

Add VARIFLO QD slowly through a jet type mixer. If product is fed too quickly, lumping or balling will occur. Hydrate slowly first 3-10 minutes; follow with rapid hydration for 15-60 minutes. VARIFLO QD should not be poured unmixed into a pit or mixing tank.

Formation Material	Ideal MFV (seconds)	Lbs of VARIFLO QD per 100 gallons of water <sup>(1)</sup>
Fine Sand	40	3.5
Medium Sand	50	4.5
Coarse Sand	60	5.5
Gravel	70-80	7-7.5

*(1) assuming water temperature of 60 °F.*

### FLUID BREAKDOWN

Chlorine concentrations of 1,000 ppm are recommended to effectively breakdown VARIFLO QD. Approximately 20 gallons of sodium hypochlorite (bleach) or 13 pounds of calcium hypochlorite per 1,000 gallons of drilling fluid is required.

### PACKAGING

25 lb pail, 36 per pallet. All pallets are plastic-wrapped.