

LCL-63

Zirconium-Based Cross-Linker

11155-002



LIBERTY

General Information:

LCL-63 is an aqueous zirconium containing cross-linker with an accelerator that yields high quality, temperature stable gels. It provides an immediate cross-link at low pH, 3.5 to 4.8, applications which enable LCL-63 gels to be compatible with CO₂.

Physical Properties:

Density 8.67 – 8.92 lbs/gal.
pH (1% solution).....9.0 – 10.0
Solubility in WaterMiscible
Ionic Charge.....Cationic
Appearance..... Clear, yellow to red liquid
Odor Alcoholic
Flash Point 70°F

Chemical Description:

LCL-63 contains Propanol and Isopropyl alcohol. It is not known to interfere with foamers.

Recommended Uses:

Used to cross-link carboxymethyl-hydroxypropylguar (CMHPG) polymers for temperature stable fracturing fluids at bottom-hole temperatures above 225°F.

Also recommended for low pH applications that require an immediate cross-link.

Treating Applications:

Recommended concentration range is 1 to 2 gallons/1000.

Packaging:

Available in 480lb drums.

DOT Information:

FLAMMABLE LIQUID, N.O.S., UN1993, PG III

