

Organic Zirconium Crosslinker SL-EXP6605**Product Description**

SL-EXP6605 is suitable for water-based gel fracturing fluid system. It can be used to crosslink guar gum and its derivatives and polymers.

SL-EXP6605 has delayed cross-linking and heat and shear resistance. The formed gel can withstand temperatures of 360°F (182°C) . It has a wide pH range and can be cross-linked under both acidic and alkaline conditions. It can also be used for high-mineralization brine. It has strong adaptability, good stability, low dosage, and high cross-linking efficiency.

Technical & Engineering Information

SL-EXP6605 is an organic zirconium crosslinking agent. Zirconium compounds (Zr⁴⁺) have strong affinity for hydroxyl and carboxyl groups and can form stable chemical bonds with the functional groups (-OH, -COOH) to form high-viscosity gel. Various polyol ligands achieve the purpose of delayed crosslinking by shielding and delaying the release of zirconium ions; and after the introduction of organic ligands, the stability is improved. Due to the formation of multi-nuclear complex ions, the strength of the unit crosslinking point is increased, thereby improving the temperature and shear resistance of the gel.

Technical Indicators**Technical Indicators of SL-EXP6605**

Item	Indicator
Appearance	Transparent Liquid
Color	Light yellow to yellow
Odor	Slightly mild smell
PH	7-9
Density, 20°C	1.1-1.3 g/cm ³
Flash point	≥80°C
Solubility in Water	Soluble

Recommended Treatment

SL-EXP6605 can be used for cross-linking of HPG, CMHPG and polymers; after swelling, add PH regulator, then directly and evenly add this product, stir thoroughly.

Applicable pH range: 2-6; 9-11

Temperature resistance: 160-180°C

0.45% CMHPG + 0.2% Gel performance: 180°C, 170s⁻¹, 2 hours, viscosity > 80mPa·s

Packing and Storage

SL-EXP6605 is supplied in 200kg high density polyethylene (HDPE) drums or 1000kg IBC. Keep it away from extreme conditions such as places near flames or direct sunlight.

Shelf life is 2 years.

<http://www.stimulationchem.com/>

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