

Organic Zirconium Crosslinker SL-EXP4206

○ Product Description

The high-viscosity gel used in the fracturing construction process is generally prepared from vegetable gum (guar gum) or synthetic polymer. Under certain PH conditions, a cross-linking agent is added to form a pickable gel within a suitable time. SL-EXP4206 is suitable for cross-linking guar gum and PAM, especially under conditions of high mineralization.

○ Technical & Engineering Information

SL-EXP4206 is an organic zirconium crosslinking agent. Zirconium compounds (Zr^{4+}) 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-EXP4206

Item	Indicator
Appearance	Transparent Liquid
Colour	Light yellow to yellow
PH	6-8
Specific Gravity	1.0-1.2
Solubility in water	Soluble

○ Recommended Treatment

Recommended dosage: 0.2-0.5%;

SL-EXP4206 has delayed cross-linking and is resistant to temperature and shear. The gel can withstand temperatures of 160-180°C(300-350°F).

SL-EXP4206 can also be used for High salinity brine solution.

SL-EXP4206 has strong adaptability, good stability, low dosage and high cross-linking efficiency.

○ Packing and Storage

SL-EXP4206 be packed in 200L HDPE or 1000L 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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