

**ORGANIC BORATE CROSSLINKER SL-EXP4601****○ Product Description**

SL-EXP4601 is an organic borate crosslinker, is suitable for water-based gel fracturing fluid system, can form high viscosity gel by crosslinking with hydroxypropyl guar gum.

SL-EXP4601 has good stability, and has a wide range of crosslinking, adjustable crosslinking time, carrier performance is good, 40-120°C(104—250°F) shear stability and gel breaking liquid hydration completely, easy flowback and other excellent features. It is suitable for underground fracturing construction of medium and low temperature formation.

**○ Technical & Engineering Information**

SL-EXP4601 is a borate crosslinker used in guar or guar derivative based fracturing fluids.

SL-EXP4601 can be used to crosslink most guar or guar derivative based fracturing fluids. It is compatible with most additives used in fracturing fluid systems which are engineered for use up to 250°F (120°C).

SL-EXP4601 is greatly affected by the PH of the solution, the higher the PH value, the stronger the stability of the complex. When PH value is high, only a small amount of complex is slowly dissociated at the beginning, that is, delayed cross-linking.

**○ Technical Indicators****Technical Indicators of SL-EXP4601**

Item	Indicator
Appearance	Transparent Liquid
Colour	Colorless to Light yellow
PH	9-13
Specific Gravity	1.1-1.3 g/cm <sup>3</sup>
Flash Point	≥180 °F (82°C)
Solubility	Soluble in sweat and brine water

**○ Recommended Treatment**

Recommended dosages: 0.3-0.5%.

Once hydration is complete and other liquid additives have been added, SL-EXP4601 can be added.

The concentration is dependent on the polymer concentration, temperature and mix-water salinity.

Applicable pH range: 9-14.

Applicable temperature :40-120°C (104-250°F)

**○ Packing and Storage**

SL-EXP4601 is supplied in 53gallon(200L) high density polyethylene (HDPE) drums or 265gallon(1000L) IBC. Keep it away from extreme conditions such as places near flames or direct sunlight.

Shelf life: 2 years.

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

**QUALITY, VALUE, RESPONSIBILITY**

Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.