CROSSLINKERS

Setting the stage for performance.

Optimize performance at every stage with results that help minimize water requirements and improve proppant placement.

As an industry leader in crosslinker technology for over 30 years, we know a thing or two about the consistent controlled performance our customers have come to expect from our crosslinkers. Select from a wide range of applications with aqueous and non-aqueous formulations designed to reach peak viscosity within time, temperature, pressure, and pH constraints. Rockwater crosslinkers are supported by our lab team to fine tune performance in conventional freshwater fluids as well as brine based fluids used in water treatment programs.

Product	Metal Ion	Application
XLB - 305	Borate	Aqueous surface crosslinker
XLB - 308	Borate	Non-aqueous, delayed crosslinker; up to 350° F
XLB - 312	Borate	Aqueous, delayed, self-buffered crosslinker
XLB - 314	Borate	Aqueous, delayed crosslinker
XLZ - 350	Zirconate	Non-aqueous, delayed; 200 – 350 °F
XLZ - 351	Zirconate	Aqueous, slightly delayed; 200 – 350° F
XLZ - 362	Zirconate	Concentrated aqueous surface crosslinker
XLZ - 366	Zirconate	Aqueous surface crosslinker

LAB SERVICES

Our lab services are staffed by experienced chemists and engineers who assess different aspects of your well and fluid systems to formulate solutions that boost productivity and prevent issues over the life of the well.

- Quality control and assurance
- Polymer solution viscosity profiling
- Shear stability testing
- Cold climate stability testing
- Additive compatibility analysis
- Flow loop differential pressure testing

DISTRIBUTION & WAREHOUSING

Rockwater is your supply chain partner with a proven track record and a warehousing footprint in every major North American shale basin. We deliver the chemicals you need in a safe and efficient manner, while providing visibility every step of the way to keep your completion on schedule and on budget.

- 24/7 in-house customer service support
- Distribution centers in all major basins
- Extensive logistics automation improves dispatch and compliance
- Smith System® trained drivers with HAZMAT and Tanker Endorsements

XLB-305

XLB-305 is a classic borate crosslinker that has been part of the Rockwater product line for over 30 years. This concentrated aqueous borate crosslinker solution yields high quality guar and hydroxypropyl guar (HPG) gels that are stable to 350°F (176°C.) XLB-305 is best suited surface crosslinking or wells with a BHST of up to 175° F.

XLB-308

XLB- 308 is a concentrated delayed borate crosslinker suspension in a non-diesel, non-detectable BTEX* hydrocarbon carrier. The delay for XLB-308 can be designed from about 1 to 3 minutes or more, ideal for deep, hot wells.

XLB-312

Concentrated aqueous borate crosslinker that yields high quality guar and HPG gels that are stable to 350°F (176°C). XLB-312 can reduce cost and simplify gel systems through internal buffers that eliminate the need for a caustic side stream.

XLB-314

XLB-314 is an aqueous delayed borate crosslinker that yields high quality guar and hydroxypropyl guar (HPG) gels that are stable to 350°F (176°C).

XLZ-350

Aqueous zirconium crosslinker of diisopropyl bis-triethanolamino zirconate. XLZ-350 has application across a wide range of fluid pH and temperatures. Slightly delayed when used in the crosslinking of neutral pH fracturing fluids.

XLZ-351

Aqueous zirconium crosslinker of triethanolamino zirconium lactate. XLZ-351 is an effective crosslinker for low pH CMC fluids, and is ideal for use with guar and guar derivatives across a wide fluid pH and temperature range. Slightly delayed when used in neutral pH fracturing fluids.

XLZ-362

Concentrated Aqueous crosslinker solution of zirconium lactate ideal for surface applications across a wide range of fluid pH and temperatures.

XLZ-366

Aqueous crosslinker solution of zirconium lactate ideal for surface applications across a wide range of fluid pH and temperatures.

ROCKWATER® ENERGY SOLUTIONS

FOR A QUOTE OR MORE INFORMATION

Contact your Rockwater representative or find your nearest Rockwater location at **rockwaterenergy.com/contact.**

*Not detected at practical quantitation limits of total BTEX <1 ppm