

## **BBG-XL4**

pH Buffered, Borate-based, Green Cross-Linker

### **Use:**

BBG-XL4 is a high Boron content buffered liquid Cross-Linker. It is a green, glycol-free additive for instant cross-linking guar, guar derivatives and other carbohydrate-based fracturing fluids.

BBG-XL4 offers convenience and flexibility in the creation and use of high viscosity cross-linked gels which potentially increase fracture width and allow higher proppant loading.

BBG-XL4 can be added on the fly, typical loading rates are 1 to 3 gpt based on desired fluid properties.

### **Physical & Chemical Properties:**

Parameter	Specification
Appearance	Clear Liquid
Odor	None
Specific Gravity	1.30 to 1.40
pH	11 to 13
Pour Point	20 deg F
Flash Point	Non flammable

### **Compatibility:**

Compatible with most known fracturing fluids additives used in all types of guar and guar derivatives. However, a compatibility test is recommended before use.

### **Environment:**

Not hazardous to the environment.

### **Typical Dosage:**

Typically used at 1 to 3 GPT depending on well conditions and desired result

### **Temperature Limitations:**

Can be used across a wide temperature range, no lower or upper temperature limitations on performance. Typically used in wells with BHT up to 275 F, however the product will produce gels that are stable up to 350 F.

### **Packaging:**

330 ga one way totes, 275 ga one way totes, 55 ga drums and Bulk Tank Trucks

### **Availability:**

Pleasanton, TX; Beasley, TX and Midland, TX

### **DoT Classification:**

Regulated