

TEKPLUG XL HD cross-linked fluid loss control polymer

Control loss of high-density clear brine fluid to the formation during completions or workovers

Applications

- Completion or workover operations
- Controlling loss of high-density clear brine fluid to the formation

Features and Benefits

- Compatible in water and brine
 - Applies directly to working brine
- Pre-cross-linked polymer concentrate
 - Has no special safety mixing requirements other than standard PPE
- Designed for calcium and zinc brines
 - Is used for applications between 12.6 and 16.0 lb/gal
- Can withstand 280°F (138°C) and differentials up to 1,500 psi (103 bar)
 - Applies to a wide range of job conditions
- Cleans up with dilute acid
 - Is easily removed from the formation face
- Can be delivered in TEKTOTE containers
 - Eliminates opening 5-gallon buckets, thus saving time and reducing the environmental impact
 - Can be mixed and pumped within 30 minutes

Baker Hughes **TEKPLUG™ XL HD (high density) pre-cross-linked, chemically modified cellulose polymer** is used primarily to control loss of high-density clear brine fluid to the formation during completion or workover operations. Fluid loss is controlled by applying a highly viscous material across the formation face, virtually stopping the flow of brine into the formation.

TEKPLUG XL HD polymer gel comes as a premixed cross-linked concentrate that is added directly to the completion brine in a batch mix tank or slugging pit designed to provide fluid agitation. The premixed concentrate mixes easily with agitation to form the fluid loss control pill.

TEKPLUG XL HD functions through a cross-linked, polymer-layered network held in place on the formation face. The effectiveness of this product is not dependent on bridging solids or on viscous drag within the formation.

Recommended Treatment

TEKPLUG XL HD can be used in brines ranging from 12.6 to 16.0 lb/gal (1.51 to 1.92 sg) to control loss of brine to the formation. At temperatures up to 280°F (138°C), TEKPLUG XL HD has proven to be stable for at least 48 hours of exposure time. For pressure differentials greater than 1,500 psi (103 bar), special consideration is required depending on formation permeability and temperature.

Environmental information

For information concerning environmental regulations applicable to this product, contact the Health, Safety, and Environmental department of Baker Hughes.

Shipping

Transportation of TEKPLUG XL HD is not restricted by international or USA regulatory agencies.

Safe handling recommendations

Use normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, and apron is recommended for employee comfort and protection. See Safety Data Sheet (SDS) prior to use.

Packaging

TEKPLUG XL HD is supplied in 5-gallon pails, 32 pails to a pallet. It is also available in 6-bbl **TEKTOTE™ containers** as an alternative to pails.

Typical properties

Appearance	Cross-linked polymer gel
Specific gravity	1.6
Odor	Faint solvent
pH	10
Viscosity	> 10,000 cP
Pour point	< 10°F (-12°C)