

INFORMATION

BRINE-VIS-XHT

BRINE VISCOSIFIER

DESCRIPTION

BRINE-VIS-XHT is a specially designed liquid polymer designed to viscosify high brine completion fluids at temperatures up to 160° C (320° F). Its typical properties are:

Form	White liquid
Specific Gravity	1.05
Flash Point	Greater than 100° F
Pour Point	Less than - 10° F
pH	7.9
Storage Stability	Stable to multiple low temperature (-40° C) freeze/thaw cycles. Also stable under high temperature storage conditions.

PERFORMANCE

BRINE-VIS-XHT is a viscosifier for high-density brines, and designed to function up to temperatures considerably in excess of those which degrade conventional natural polymers. Shear thinning rheological properties are maintained up to 160° C (320° F).

BRINE-VIS-XHT is a high activity synthetic polymer in liquid form which is totally soluble in completion brines compared with the semi-soluble colloidal nature of natural products. Any potential problems in the formation would therefore be eliminated. Rapid dissolution of BRINE-VIS-XHT is achieved by simple mixing techniques.

BRINE-VIS-XHT gives high viscosities at elevated temperatures for the preparation of completion fluid brines. The high retained down-hole viscosities will result in excellent cuttings transport but moderate surface viscosities facilitate solids removal. A secondary advantage is the requirement of lower hydraulic horsepower for circulation.

BRINE-VIS-XHT is completely acid-soluble.

Typical viscosifying properties of BRINE-VIS-XHT in 52% CaBr₂ solution are shown in the accompanying graphs.

EASE OF HANDLING

BRINE-VIS-XHT liquid polymer has been designed to give maximum stability for storage and handling with maximum simplicity for on-rig use.

POLYMER SPILLS

As with all polymers, spills are a hazard due to the inherent slipperiness of the product. Spills should be cleaned up immediately using solids such as drilling clays, barite or top soil to absorb the bulk of the product before applying a water hose for final wash down.

PACKAGING

BRINE-VIS-XHT is supplied in 25 kg plastic kegs and 200 kg drums. It has a low order of toxicity and no special handling precautions are necessary. Normal standards of industrial hygiene practice should be followed.

When stored in the container in a cool, dry place, BRINE-VIS-XHT has a shelf life of at least six months. The product is stable to high and low ambient temperatures but long term outside storage should be avoided where possible.

BRINE-VIS-XHT is a Messina trademark