

MaxVert®

Fluid Diverter



Product Specifications



DESCRIPTION

MaxVert® fluid diverter is a temporary diverting material used in fracturing, refracturing, and sub-hydrostatic workovers. With a unique and customizable particle size distribution, MaxVert is an effective diversion material, particularly when mixed in a polymer containing fluid. MaxVert diverter bridges perforation tunnels and fractures near the wellbore. With time and temperature, and in the presence of a small amount of water, the diverter completely dissolves to a clear liquid.

ADVANTAGE

Reduces completion costs by eliminating stages

Increases production by improving fracture intensity

Eliminates the need for mechanical intervention in re-completions, reducing costs

Enables effective wellbore clean-out when open perforations inhibit the process

Works in highly washed out perforation holes where ball sealers struggle to form a seal

No clean up step is needed when the material is allowed to degrade naturally

Degradation products will not adversely react with produced fluids or other wellbore fluids

APPLICATION

Refracs in reservoirs where the original fracturing treatment:

Was designed with excessive spacing between perforation clusters

Did not use enough sand per stage

When circulation is required in a work over and the wellbore will not support a full column of fluid

Replacement for mechanical plugs or perforation ball sealers

When guns can be positioned, but a bridge plug cannot (partially collapsed casing is one example)

When casing cannot be run to the bottom, the resulting open hole can still receive the planned number of treatments by diverting between treatments

TREATMENT RECOMMENDATIONS

Base fluid: MaxVert works in water, brine, slick water, gelled fluids. A polymer such as friction reducer, guar, HEC or xanthan added to or normally present in the treatment fluid can help wet the smaller particles in the mixing tub and carry the material through the surface equipment.

Concentrations: Typically 50 to 200 lb/1,000 gal

Pump rate: 20 bbl/min

Treatment amounts: Start with 5 lb of MaxVert per perforation. Amount can be adjusted up or down, based on pressure response

Method of addition: Although the material is easily fed through dry additive systems, most additions are performed simply by cutting sacks directly into the mixing tub

Tub level: If material is slow to wet in, lower the tub level to 80% and increase agitation

Pump isolation: It is best to isolate one or two pumps to inject the diverter. These should be rigged up downstream of the manifold

PHYSICAL PROPERTIES

Appearance: White powder with hard plastic beads

Specific gravity: 1.25

pH: No initial effect on pH until degradation is well underway, at which point the pH will drop

HANDLING AND STORAGE

MaxVert should be stored in a dry environment. Use appropriate PPE and review the SDS before use.

PACKAGING

MaxVert is available in 50-lb bags sacks, 40 sacks on a pallet.

