

Losseal Microfracture

Lost circulation control treatment

APPLICATIONS

- Drilling, casing, and cementing operations with losses less than 40 bbl/h
- Microfractured formations with fracture widths less than 1 mm
- Weak zones and depleted formations

BENEFITS

- Reduces NPT by
 - mitigating the risk of cement and fluid losses
 - curing losses without setting cement plugs
 - eliminating the need to pull out of hole (POOH) by pumping through bit nozzles as small as 1/16 in
 - helping regain circulation quickly
 - achieving required top of cement (TOC)
- Eliminates time-consuming, expensive remedial operations

FEATURES

- Mixes with cement, spacer fluids, and water-base, oil-base, and synthetic-base muds
- Combines an interlocking network of fibers with sealing material of various sizes
- Ranges from 5 to 15 lb/bbl fiber concentration, depending on solid volume fraction (SVF)
- Disperses easily in fluids
- Eliminates special equipment and laboratory tests



The Losseal Microfracture treatment creates a compact, impermeable seal that plugs pores and fractures.

As part of the Losseal* reinforced composite mat pills family, the Losseal Microfracture* lost circulation control treatment combines specific engineered fibers with solid bridging materials of optimal sizing to increase the effective SVF of carrier fluids, like muds, spacers, or cements. Losseal Microfracture treatment will work in both water- and oil-base systems.

The result is a compact, impermeable seal that plugs pores and fractures and mitigates the risk of lost circulation during drilling, casing, and cementing operations. During drilling and precementing, the Losseal Microfracture treatment is applied through a pill. During cementing operations, the Losseal Microfracture treatment is added directly to the spacer fluid ahead of the cement.

By using the Losseal Microfracture treatment, operators regain circulation or prevent lost circulation, run casing without losses, and achieve required TOC—substantially reducing NPT and costs.

The treatment contains inert and fibrous material and has been thoroughly field proven, passing through 9/32-in (6.35-mm) bit nozzles, and can plug slots as small as 1/16 in—eliminating the need to POOH. The Losseal Microfracture treatment has been successfully used in more than a 1,000 treatments across North and South America.