

BaraShield®-664 Lost Circulation Material

Medium-sized Granular Multi-modal LCM, Mesh Size (-18/+325)

CHALLENGE

During the drilling process, wellbore instability and lost circulation are major causes of drilling non-productive time – causing major expenses for the operator. When combined with the additional cost associated with lost fluids, preventing lost circulation is crucial. Lost circulation raises significant costs and risks, including stuck pipe, formation damage and loss of well control, and threatens to pose greater challenges in the future.

OVERVIEW

Halliburton Baroid's BaraShield®-664 lost circulation material (LCM) is an innovative, coarse-sized, engineered, composite solution that complements the finer grade BaraShield-663 LCM. BaraShield-664 effectively helps prevent lost circulation by sealing fractures up to at least 1,000 microns in size in permeable and impermeable formations. .

With BaraShield-664 LCM, operators can reduce non-productive time with the predefined material composition in a single sack and increase wellbore stability by preventing seepage and partial fluid losses.

Operators can mitigate partial fluid loss rates with BaraShield-664 LCM as an effective continuous treatment to remediate fluid losses typically occurring in unconsolidated sand or gravel, small natural fractures, or small induced fractures. By utilizing our STRESS-SHIELD™ Engineering Method, the appropriate amount can be determined to effectively prevent fractures from further expansion before reaching the maximum sealing capacity. Identifying the proper amount required for each application effectively manages inventory control.

APPLICATIONS

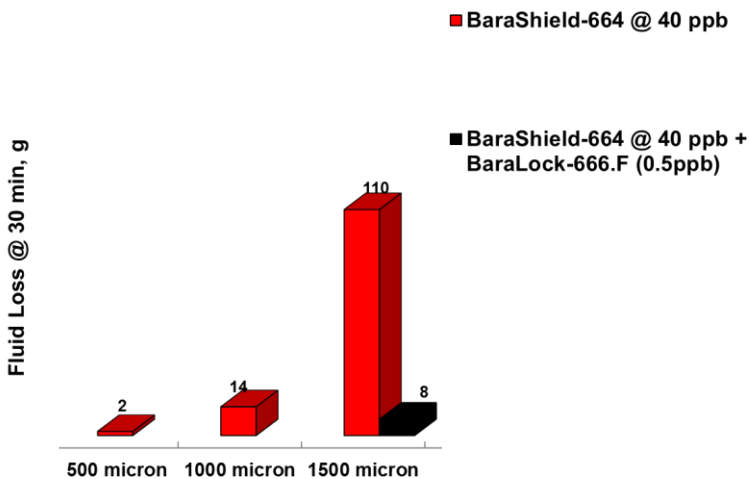
BaraShield-664 LCM can be utilized for seepage and partial loss prevention in aqueous and non-aqueous-based fluids without altering fluid properties. For severe losses, BaraShield-664 LCM can be supplemented with BaraLock-666.F LCM to significantly reduce fluid losses as indicated in the lab data on the following page.

FEATURES

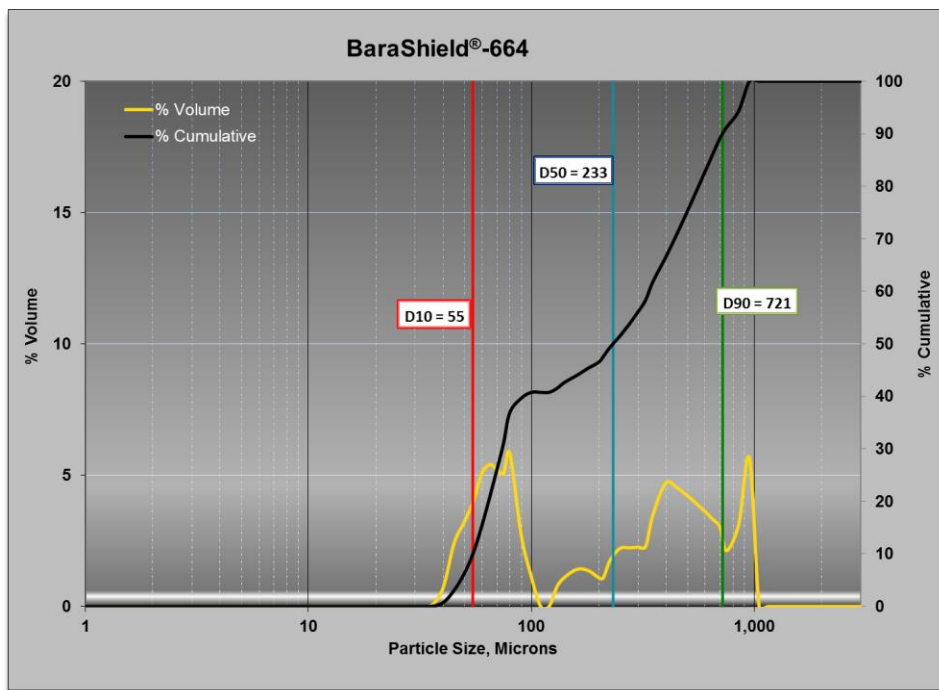
- » Quickly plugs fractures up to at least 1,000 microns in size
- » Added to existing fluid without altering fluid properties or particulate formulation
- » Effective as continuous treatment when utilized as a LCM pill
- » Suitable for all well types in any location

BENEFITS

- » Maintain wellbore stability
- » Versatile technology
- » Increased drilling efficiency
- » Reduced costs
- » Reduced HSE incidents



BaraShield-664 LCM seals fractures up to at least 1,000 microns in width. At 1,500 microns, when BaraShield-664 LCM is supplemented with BaraLock-666.F LCM, fluid losses are significantly reduced.



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