

The BridgeMaker™ Family of LCM Spacer Fluids

Overcoming lost circulation while preparing the wellbore to receive cement

The BridgeMaker™ I LCM and BridgeMaker™ II LCM spacer fluids are designed to overcome lost circulation while preparing the wellbore to receive cement. These fluids are an environmentally friendly blend of carefully selected materials. The materials include coarse and tough lost circulation material; fibers; and medium-sized, resilient angular material. These fluid systems help mitigate losses when cementing across weak, unconsolidated or fractured formations.

These fluid systems carry materials with both high-pressure integrity and compressibility to help ensure tolerance to changes in fracture size due to differential pressure fluctuations without the materials being dislodged or allowing collapse. These materials are stable and insoluble in water.

Both spacer fluids systems are able to break the emulsion of oil-based drilling fluids, water wetting the casing or pipe and the formation in preparation for cement bonding. Additionally, they resist intermingling of fluids at the interface in the fluid train.

The BridgeMaker I LCM and BridgeMaker II LCM spacer fluids allow for customized viscosity and the particles remain in suspension with minimal risk of sedimentation. Additionally, both spacer fluid systems can accommodate weighting additives to optimize the fluid density.

Benefits

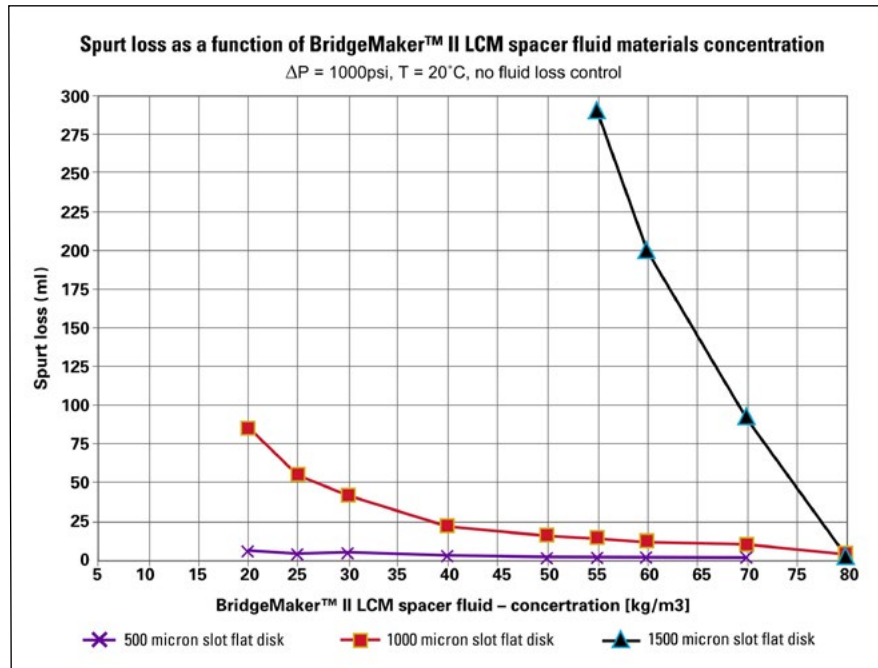
- Can be easily pumped through float equipment
- Suitable for most densities and most viscosified wellbore fluids
- Rheology can be precisely adjusted
- Materials selected for ease of mixability and compatibility
- Broad range of fracture width efficiency
- Highly efficient in bridging fractures
- Recommended lost-circulation-material loading for primary cementing operations:
 - BridgeMaker I LCM spacer fluid: 55 kg/m³/20lbs/bbl
 - BridgeMaker II LCM spacer fluid: 30-60 kg/m³/10-20 lbs/bbl



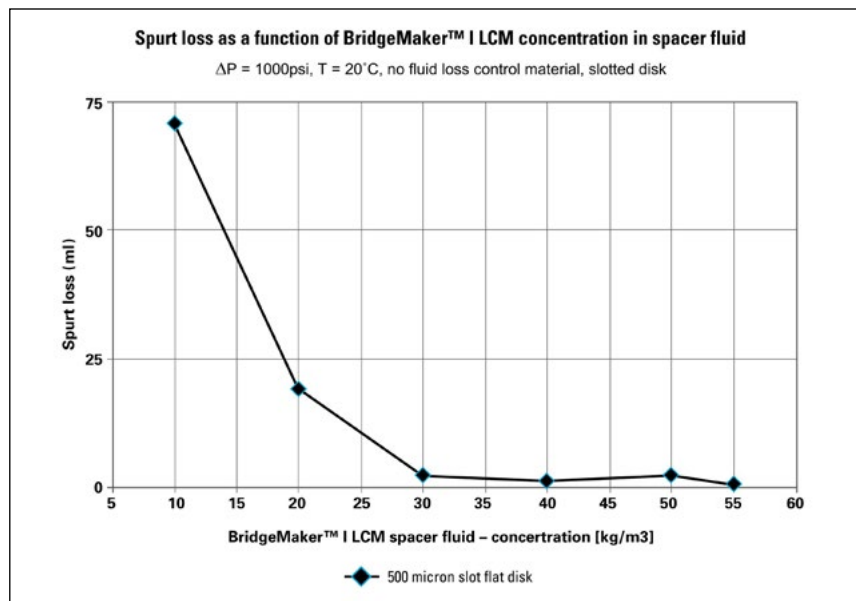
A blend of coarse and angular materials along with fibers in BridgeMaker Family of LCM spacer fluid help overcome the challenge of lost circulation.



The bridging ability of the BridgeMaker™ Family of LCM spacer fluid helps ensure effective blocking of formation fractures at a wide range of fracture widths.



The BridgeMaker™ Family of LCM fluid is effective across a wide range of material loading.



For more information on The BridgeMaker™ Family of LCM spacer fluid, please call your local Halliburton representative or email us at cementing@halliburton.com.

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