



Drilling Fluids, Inc.

Lost Circulation Material

Description

MICA

MICA is a group of sheet silicates characterized by a platy appearance used as a lost circulation material (LCM) and is available in three different sizes, fine, medium, and coarse. MICA is classified as a flake type of LCM.

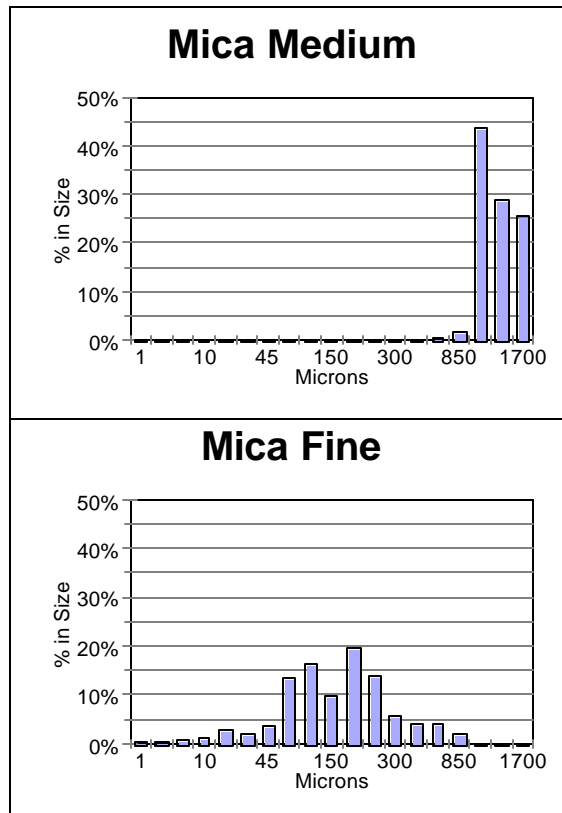
Uses

MICA can be used in both water and oil base muds to seal seepage and lost circulation zones.

Benefits

The range of particle sizes in MICA is capable of bridging fractures and depositing fine solids into the tip of a fracture to stop the fracture propagation. The small particle size of fine MICA also helps reduce seepage losses in non-fractured zones.

Particle Size Analysis



Mesh	Micron
400	35.56
75	190.80
60	250.00
50	300.00
40	425.00
30	600.00
20	850.00
14	1400.00
10	1700.00



Drilling Fluids, Inc.

Lost Circulation Material

MICA (Continued)

Treatment

MICA is mixed through the mud hopper. Pills can have concentrations between 15 and 40 ppb of MICA depending on the nature of the loss zone. Seepage may be controlled by maintaining a concentration of 4-8 ppb.

Function

The MICA particles flow into the fractures with the whole mud and form bridges and mating which closes off the fractures and porous regions preventing additional losses of fluid.

Typical Physical Properties

Appearance.....Silver to gold colored free-flowing flakes
Specific Gravity2.7

Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet (MSDS) for this product prior to use.

Packaging

MICA is sold in 50 pound multiwalled sacks