Mica

MICA* is a soft potassium aluminium silicate mineral graded into fine, medium and coarse size ranges.

MICA is used for regaining lost circulation. Fine grade is used extensively as a preventative measure against loss of circulation. It will pass through a 20 mesh shaker screen.

Typical Physical Properties

Physical appearance	Cream-colored, free flowing powder
Specific gravity	1.5 – 1.8
Solubility	6.5 – 8.0
Bulk density	

Applications

MICA is chemically inert in any drilling fluid systems and is unaffected by crude oils, acids or brines.

There are 3 grades of MICA; MICA FINE, MICA MEDIUM AND MICA COARSE.

The particle size for each grade are as follows:

Grade Size	Fine	Medium	Coarse
Particle Size	< 2.36 mm - 100 %	< 3.0 mm -100%	< 4.75 mm - 100 %
Particle Size	1.0 mm - 92 %	2.36 mm - 90 %	2.36 mm - 96.6 %
Particle Size	0.5 mm - 49.4%	1.0 mm - 55 %	1.0 mm - 55.9 %
Particle Size	-	0.5 mm - 20 %	0.5 mm - 14.7%

MICA FINE may be added to the drilling fluid system as a preventative measure and will not adversely affect the drilling fluid.

Fine grade can be added up to a rate of 11.0 to 17.0 kg/m3 (3.85 to 6 lb/bbl) when a porous zone is anticipate. Medium and coarse grades are used singularly or in combination with other lost circulation materials when severe lost circulation occurs.

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