

MAGMA FIBER

ACID SOLUBLE LCM AND SWEEP MATERIAL



DESCRIPTION

MAGMA FIBER, manufactured by Lost Circulation Specialists, Inc., is a specially formulated, extrusion spun mineral fiber. This coarse, long flexible fiber will give increased circulation by bridging and plugging off voids, fractures, and all types of permeable formations. MAGMA FIBER is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects.

MAGMA FIBER is compatible with all oil and water based muds and emulsion. The interlocking nature of these strong fibers provides a framework for forming a low permeable mud cake with a resultant reduction in drilling fluid loss and hole caving. Low alkaline, flexible, inorganic MAGMA FIBER is inert to drilling fluids. This fiber is non-corrosive to equipment while maintaining high-solubility diluted hydrochloric acid. It is particularly adaptable to rework operations.

MAGMA FIBER is coated with a mono-molecular film of a specially formulated surfactant (that speeds separation of the fibers), then formed into nodules. These nodules are formed into loosely connected groups so that when they are immersed in drilling fluids and subjected to agitation the nodules separated into the individual fibers. Acid soluble, easily wetted, non-combustible, non-fermenting, inorganic, non-polluting, non-corrosive, non-toxic, temperature stable, and

APPLICATION

MAGMA FIBER can be used in concentrations of up to 30+ lb/bbl (15+ kg/bbl) in slug treatments or as additive to entire system. MAGMA FIBER has been used in concentrations of 1/2 bag every 30 minutes for ongoing seepage, to concentrations of 5-15 lb/bbl (2.5-7 kg/bbl) for seepage/partial or total losses. MAGMA FIBER is particularly suitable for oil base mud. When more than 6-10 bags are mixed at once, a man should be at the shaker screen when the slug comes around (to clean or bypass the shaker screen). MAGMA FIBER can be used in all oil and water base mud systems. MAGMA FIBER should be added directly into pits and gunned into the mud, it can be mixed through the mud hopper but it is much slower.

LIMITATION

When acid solubility is not important, a combination of materials can be added to ensure a good particle size distribution.

PACKAGING

25 lb (11.25 kg) bag, 48 per pallet. All pallets are plastic-wrapped.

TYPICAL CHEMICAL ANALYSIS	
COMPOSITION	% WEIGHT
SiO ₂	38-42
Al ₂ O ₃	9-12
CaO	31-40
MgO	8-15
Fe ₂ O ₃	0-10
Total alkalines as Na ₂ O	1-2
SO ₃	0.5 or less
pH in water	7.0-8.0
Loss on ignition	Less than 0.5
% water soluble	Less than 0.2
Water soluble sulfate	Less than 0.05
Melting point	2400°F (1315°C)

contains no asbestos.

