



MPL Products
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MMO/MMH (Multi Metal Oxides/Hydroxides)

Product Data Sheet

Description

MMO/MMH is a chemically reacted blend of Oxides and Hydroxides of Aluminum and Magnesium. It acts as bentonite extender to maximize carrying capacity in water-based drilling fluid and is a very effective replacement for Xanthan Gum when used with Bentonite. It is blend of complex chemicals fundamentally different from conventional chemicals. The rheological profile of mud is obtained using six speed viscometers, mud containing MMO/MMH has shown to provide relatively high 3 rpm and 6 rpm readings, 300 rpm and 600 rpm respectively.

By design, MMO/MMH produces relatively high rheological values without impacting the gel strength, thus resulting in lower energy requirement to initiate circulation. MMO/MMH helps in providing higher gel strength when in motion while being relatively thinner. Bentonite/MMO/MMH drilling fluids can create very high gel strengths in order to suspend heavy drilling cuttings. The faster the bentonite drilling fluid moves, thinner it gets and when at rest, bentonite drilling fluids form a gel like structure that prevents drill cuttings from settling. Soil conditions such as Gravel or Cobble require high Gel Strengths in suspending and carrying out cutting. Especially in directional drilling the suspension and removal of cutting is far more troublesome, where MMO/MMH helps.

USES

- Economical replacement for Xanthan Gum, when using fresh water, salt water or SSW fluids when used with Bentonite
- Produces high viscosity at low shear rates.



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- For conventional, angled & horizontal wells.
- Excellent for Sea water and SSW fluids.
- Superior hole cleaning in freshwater mud.
- Reduced fluid losses in highly permeable, depleted & unconsolidated sand and gravels.
- Suggested to be used in areas where conventional LCM and specialized blending remedies are not effective in controlling losses.

ADVANTAGES

- Reduced mud losses in natural fractures. Helps in healing induced fractures from excessive pressures.
- Effectively reduces mud loss while drilling.
- High Temp stability 300 – 400 F.
- Compatible with Anionic Polymers.
- Up to 60% lower usage of bentonite.
- Shear thinning helps enhanced ROP

Specifications

Parameter	Unit	Specifications
Appearance	Visual	Free flowing powder
Colour	Visual	Off white
Buk Density	g/cc	1.0 - 1.1
pH		9.5 - 10.5
Moisture Content	% by mass	10% max
Total Metal Content (Al & Mg)	% (w/w)	65.00 min

Packaging

MMO/MMH is packed in 25 kg bags