# M-I Gel Supreme

M-I Gel\* Supreme viscosifier is a chemically untreated, premium-grade bentonite (a sodium montmorillonite clay).

It is used as a primary filter-cake-building, filtration-control and suspension agent in freshwater systems and has application in all water-base mud systems. M-I Gel Supreme viscosifier is a high-quality product that meets the ISO 13500 Clause 10 (also known as API Spec 13A, Section 10) specifications for nontreated bentonite.

### **Typical Physical Properties**

Physical appearance	Light tan/gray-green powder
Specific gravity	2.3 – 2.6
Bulk density	
ISO 13500 Clause 10 Specifications:	
Suspension properties (Suspension of 25 grams into 350 cm3 deionized water	er):
Dispersed plastic viscosity	10 cP, min.
Yield-point/plastic-viscosity ratio	1.5, max.
Dispersed API filtrate volume	12.5 cm3, max.

#### **Applications**

M-I Gel Supreme viscosifier is a cost-effective product for achieving viscosity, controlling fluid loss and maintaining filtercake quality in freshwater and seawater muds. Typical concentrations for M-I Gel Supreme viscosifier range from 5 to 35 lb/bbl (14.3 to 100 kg/m3).

As with all bentonite products, the yield decreases as the salinity increases. In muds containing more than 10,000 mg/L chlorides, the performance of M-I Gel Supreme viscosifier is significantly reduced unless it is pre-hydrated in freshwater, before adding it to the mud system.

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# Product Data Bulletin

#### Advantages

- Hydrates more than other types of clays and is best for generating viscosity, developing gels for suspension and controlling filtration
- A premium-grade, API, nontreated bentonite; therefore, it does not contain chemical treatments and is considered to be more desirable for certain applications
- The small particle size, unique flat shape and the high surface area of hydrated M-I Gel Supreme viscosifier provide superior filtration characteristics

#### Limitations

Performance reduced in salty (>5,000 mg/L ClÏ) or hard (>240 mg/L Ca++) waters due to decreased hydration

## **Toxicity and Handling**

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

#### **Packaging and Storage**

M-I Gel Supreme viscosifier is packaged in 100-lb (45.4-kg) multi-wall paper sacks and is available in bulk.

Store in a dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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