

**ICLAY 21<sup>®</sup> DMS ORGANOCCLAY RHEOLOGICAL ADDITIVE**  
SINGLE INVENTORY + MULTIPURPOSE + ECONOMICAL + COST EFFECTIVE

**Description:**

HEXAGON's ICLAY 21<sup>®</sup> DMS organoclay is a rheological additive based on TETRAALKYL AMMONIUM BENTONE CLAY CHEMISTRY. It is self-activating and easy to disperse and designed to use for drilling muds application.

HEXAGON's ICLAY 21<sup>®</sup> DMS is easy to incorporate in system in following ways

- It is self activating and require no chemical activator.
- Direct Powder can be Incorporated with Deisel and MTO during mixing process for performance efficiency.

**HEXAGON's ICLAY 21<sup>®</sup> DMS Key Features and Benefits**

- Is a cost-effective replacement for all other conventional organoclay additives
- Disperse very easily, even under low shear conditions
- Provides good suspension and control thixotropy and stability in Crude Oil, Diesel oil system.
- Easy to incorporate and use without polar activator or making pre-gel.
- Control wall protection and anti filtration properties.

**Typical Physical Properties:**

|                                       |  |
|---------------------------------------|--|
| Composition                           | TETRAALKYL AMMONIUM BENTONE CLAY CHEMISTRY |
| Appearance / Colour                   | White free flowing Powder                  |
| Bulk Density, gm/cu.cm                | 0.4-0.5                                    |
| Moisture, H <sub>2</sub> O (105°C), % | 3.5% Max                                   |
| Loss on Ignition (LOI), %             | 35% Max                                    |
| Granularity (200 mesh)                | ≥ 95%                                      |

**Recommended Doses**

HEXAGON's ICLAY 21<sup>®</sup> DMS doses range between 4 % - 6.0 % based on total formulation weight.

## Applications:

- Oil Based drilling mud (Fluids)
- Oil Based free stick mud (Fluids)
- Emulsion oil drilling mud (Fluid)
- Reverse emulsion oil drilling mud (Fluid)
- Grease
- Industrial Inks
- Industrial Coatings
- Lubricants

## Storage Recommendation and Shelf Life

Store in cool and dry place. Product has shelf life of 2 years from date of manufacturing.

## Product Safety, Handling and Storage

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, emergency service contact information, and any special storage conditions required for safety.

SDS is available upon request by contacting Hexagon Industrial directly.

## Limitations

Customers must evaluate Hexagon products and make their own determination of suitability of their requirements.

## Contact Information

For product prices, availability, or order placement, contact [khateebzaidi@hexagonindustrial.com](mailto:khateebzaidi@hexagonindustrial.com)  
For literature and technical assistance, visit our website at: [www.hexagonindustrial.com](http://www.hexagonindustrial.com)