

# THERMOGEL

## Technical Data Sheet

### DESCRIPTION

THERMOGEL is a specialty clay produced from the mineral sepiolite and derives its name from its unique property of temperature stability. THERMOGEL is temperature stable without gelation or dehydration. It is effective as a viscosifier and suspension aid in asphalt coatings, fertilizers, industrial coatings, etc.

Sepiolite is a hydrous magnesium silicate clay mineral,  $Mg_8Si_{12}O_{30}(OH)_4(OH_2)_4(H_2O)_8$ . It is a light weight, non-swelling, porous clay with very high surface area and a lathe-like physical structure. This unique structure forms a gel when mixed in aqueous systems. The very low cation exchange capacity makes it stable such that it will maintain viscous properties in a brine solution.

### TYPICAL PHYSICAL PROPERTIES

|                                 |                                 |
|---------------------------------|---------------------------------|
| Appearance .....                | Finely-Ground, Off-White Powder |
| Particle Size (Dry).....        | 95% -60 mesh average            |
| 200 Mesh Residue (Wet) .....    | 4% average                      |
| Free Moisture.....              | 11% average                     |
| Bulk Density (Uncompacted)..... | 45-55 lbs/cu. ft.               |
| Viscosity*.....                 | 5000 cP average                 |

\*Viscosity measured in centipoise using a Brookfield viscometer at 10 rpm, mixed at 6% solids in water using high shear.

### PACKAGING

Available in 50 lb. (3-ply natural bags) & bulk bags. Shipped on 42”x42” non-returnable pallets.

### STORAGE

Store in a cool, dry place protected from outside weather conditions.

Lhoist – Amargosa Clay Operation  
498 E. Imvite Road  
P.O. Box 86  
Amargosa Valley, NV 89020  
Phone: 775-372-5341

<http://www.lhoist.com> <http://www.imvnevada.com>

Typical data presented in this document are for informational purposes only. They are based upon statistical analysis of historical data. Lhoist North America’s products are derived from naturally occurring minerals which are subject to compositional changes over time. Subsequently, typical data cannot be used to establish minimum or maximum specifications.