Micronized Hectorite

Revised 05/25/01

HECTALITE®GM

General Description Finely-ground, white calcium hectorite clay exhibiting high cation exchange capacity, low thickening and good binding properties.

Functional Use Used as a binder and plasticizer, especially in ceramic bodies, to ease extrusion and increase green strength with minimal viscosity increase.

Purity Hydrous magnesium silicate comprised principally of the clay mineral hectorite.

Primary impurities are dolomite, calcite, and quartz.

Solubility Insoluble in water or alcohol; one gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.

Brightness	70 minimum	**Texture**	Soft, slippery
Moisture	12% maximum as shipped	**Odor**	None
Viscosity	50 cps maximum @ 5% solids	**Taste**	None
Spec. Gravity	2.6	**Color**	White to off-white
pH	8.0-10.0 @ 2% solids		

Dry Particle Size Minimum 99.00% finer than 200 mesh (74 microns).

Wet Particle Size Minimum 99.75% finer than 200 mesh (74 microns).
Minimum 99.00% finer than 325 mesh (44 microns).

Chemical Formula Trioctahedral smectite, an expanding layer silicate:
$(Ca,Na)_{0.33}(Mg_{2.66},Li_{0.33})Si_4O_{10}(F,OH)_2$

Elemental Composition Typical analysis – moisture free.

SiO_2	60.95%
Al_2O_3	1.61%
MgO	20.70%
Fe_2O_3	1.25%
CaO	12.27%
Na_2O	0.95%
Li_2O	1.29%
K_2O	0.33%
LOI	9.90%

Packaging 5-ply multi-wall poly-lined bags, moisture-resistant, 50 pound net.