Purified Hectorite
Hydroclassified

Revised 05/25/01

HECTABRITE®DP

General Description Highly purified white sodium hectorite. Hectabrite DP is surface modified and is supplied as a free-flowing powder.

Functional Use Produces high viscosities and high gel strengths at low solids levels. Exhibits a high degree of shear thinning. Used as a binder and plasticizer, especially in ceramic bodies, to ease extrusion and increase green strength. Used in paints, ceramic glazes, and in other applications where a high degree of anti-settling and anti-sag are required.

Purity This mineral is specially processed to control both purity and performance. May contain trace amounts of calcite, quartz, and dolomite.

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

Brightness	78 minimum	**Texture**	Soft, slippery
Moisture	3 - 9% as shipped	**Odor**	None
Viscosity	2000 - 5000 cps @ 3% solids	**Taste**	None
Spec. Gravity	2.6	**Color**	White to off-white
Free Swell	Minimum 70 mls	**pH**	9.0-11.0 @ 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	**61.8%**
Al_2O_3	**1.58%**
MgO	**20.3%**
Fe_2O_3	**1.23%**
CaO	**10.1%**
Na_2O	**2.80%**
Li_2O	**1.29%**
K_2O	**0.33%**
LOI	**4.50%**

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