

Hectabrite[®] DP

Application: Binder, plasticiser

Grade: Purified Hectorite, Hydroclassified

TYPICAL ANALYSIS

General Description	Highly-purified white sodium hectorite. Hectabrite DP is surface modified and supplied as a free flowing white 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		
Chemical Formula	A trioctahedral smectite, an expanding layer silicate $(Ca,Na)_{0.33}(Mg_{2.66},Li_{0.33})Si_4O_{10}(F,OH)_2$		
Brightness	78 minimum	Texture	Soft, slippery
Free Swell	Minimum 70 mls	Odour	None
Moisture	3-9% as shipped	Taste	None
Viscosity	1000 - 3000 cps @ 3% solids	Colour	White to off-white
Spec. Gravity	2.6	pH	9.0 - 11.0 @ 2% solids
Solubility	Insoluble in water or alcohol; 1g of clay produces a surface area greater than 750 m ² when fully dispersed		
Dry Particle Size	99.00% less than 200 mesh (74 micron)		
Wet Particle Size	99.75% less than 200 mesh (74 micron) 99.00% less than 325 mesh (44 micron)		
Elemental Analysis (Moisture Free)	SiO ₂ 61.8%	Al ₂ O ₃ 1.58%	
	MgO 20.3%	Fe ₂ O ₃ 1.23%	
	CaO 10.1%	Na ₂ O 2.80%	
	Li ₂ O 1.29%	K ₂ O 0.33%	
	LOI 4.50%		
Packaging	5 ply Multi-wall, poly lined, moisture resistant bags (25 kg)		

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