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Laponite D

The Clear Leader

Description

LAPONITE D is a synthetic layered magnesium silicate which has been surface modified with fluoride ions. LAPONITE D is insoluble in water but hydrates and swells to give clear and colorless colloidal dispersions in water or aqueous solutions of alcohols. At 2% concentration in water and 50% aqueous solutions of sorbitol or glycerol, highly thixotropic gels are obtained.

Application

Usually used in conjunction with other thickeners for imparting a shear sensitive structure to both conventional and specialty toothpastes. For formulation information refer to Laponite Technical Bulletin L202/01e.

Typical Characteristic

Bulk Density- 1000 kg/m³
Surface Area (BET)- 370 m²/g
pH (2% suspension)- 9.7

Chemical Composition (dry basis)	
SiO ₂	59.3%
MgO	27.4%
Li ₂ O	0.8%
Na ₂ O	2.9%
Total fluorine	0.3%
Loss on Ignition	8.2%

General Specifications

Appearance	Free flowing white powder
Sieve Analysis	2% Max >250 microns
Free Moisture	3 - 10%
Gel strength	22g min.

Rockwood QA Test Code
ELP-L-10A
ELP-L-6A
ELP-L-5A
ELP-L-1H

Specifications can be agreed to meet individual requirements.

Storage

Laponite is hygroscopic and should be stored under dry conditions.

For additional information or technical assistance contact Southern Clay Products, Inc. toll free at 800-324-2891.

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