



Southern Clay Products, Inc.
 1212 Church Street
 Gonzales, TX 78629
 Phone: 800-324-2891
 Fax: 830-672-1903
 www.scprod.com

Laponite DF

The Clear Leader

Description

LAPONITE DF is a synthetic layered magnesium silicate which has been surface modified with fluoride ions. LAPONITE DF is insoluble in water but hydrates and swells to give clear and colourless 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 toothpastes. The surface modification prevents the partial adsorption of active fluoride ions from speciality oral care products with unusually high Laponite loadings (>1%). For formulation information refer to Laponite Technical Bulletin L202/97/d.

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.
Free fluoride	0.17-0.23 wt%

Rockwood QA Test Code

ELP-L-10A
ELP-L-6A
ELP-L-5A
ELP-L-1H
ELP-L43A

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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