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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/m<sup>3</sup>  
Surface Area (BET)- 370 m<sup>2</sup>/g  
pH (2% suspension)- 9.7

Chemical Composition (dry basis)	
SiO <sub>2</sub>	59.3%
MgO	27.4%
Li <sub>2</sub> O	0.8%
Na <sub>2</sub> 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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