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## **Laponite S**

### The Clear Leader

### **Description**

LAPONITE S is a synthetic layered fluorosilicate incorporating an inorganic polyphosphate peptiser. It hydrates and swells in water to give virtually clear and colorless colloidal dispersions of low viscosity known as sols. At 10% concentration in water these will remain free flowing for a minimum of 7 days. On addition of small quantities of electrolyte highly thixotropic gels are formed rapidly.

### **Application**

LAPONITE S may be utilised as a predispersed liquid concentrate and added to formulated products as required. It is used to impart a shear sensitive structure to a wide range of waterborne formulations including surface coatings and cleansers.

LAPONITE S may be coated onto paper or other surfaces from concentrated sols to give smooth, coherent, and electrically conductive films.

### **Typical Characteristic**

	Chemical Composition (dry basis)	
Appearance free flowing white powder	SiO <sub>2</sub>	51.0%
Bulk Density- 950 kg/m <sup>3</sup>	MgO	25.0%
Surface Area (BET)- 310 m <sup>2</sup> /g	Li <sub>2</sub> O	1.3%
pH (2% suspension)- 9.9	Na <sub>2</sub> O	6.0%
	P <sub>2</sub> O <sub>5</sub>	3.3%
	F	5.0%
	Loss on Ignition 8.4%	

### **General Specifications**

		Rockwood QA Test Code
Sol Stability	Fluid after 7 days	ELP-L-2D
Sieve Analysis	2% Max >250 microns	ELP-L-6A
Free Moisture	10% Max	ELP-L-5A

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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