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## Laponite XLS

### The Clear Leader

### Description

LAPONITE XLS is a synthetic layered silicate of low heavy metal content, incorporating an inorganic polyphosphate dispersing agent. LAPONITE XLS hydrates and swells in water to give clear and colorless colloidal dispersions of low viscosity known as sols. At 10% concentration in average tap water these will remain free-flowing for over 24 hours. On addition of small quantities of electrolyte, highly thixotropic gels are rapidly formed.

### Application

LAPONITE XLS may be used 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 personal care products. For formulation information, refer to Laponite Technical Bulletin L211/97/d.

### Typical Characteristic

Appearance free flowing white powder	Chemical Composition			(dry basis)
Bulk Density 1000 kg/m <sup>3</sup>	SiO <sub>2</sub>	54.5%	Pb	<3ppm
Surface Area (BET) 330 m <sup>2</sup> /g	MgO	26.0%	As	<1ppm
pH (2% suspension) 9.7	Li <sub>2</sub> O	0.8%	Sb	<2ppm
	Na <sub>2</sub> O	5.6%	Cd	<2ppm
	P <sub>2</sub> O <sub>5</sub>	4.1%	Ba	<4ppm
			Hg	<2ppm
	Loss on Ignition 8.2%			

### General Specifications

		Rockwood QA Test Code
Sol Stability	Fluid after 24 hours	ELP-L-2B
Sieve Analysis	2% Max >250 microns	ELP-L-6A
Free Moisture	10% Max	ELP-L-5A
Lead	5mg/kg Max	ELP-L-16A
Arsenic	1mg/kg Max	ELP-L-17A

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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