



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

## 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.

Disclaimer of Warranty: The information presented herein is believed to be accurate but is not to be taken as a warranty, guarantee, or representation for which we assume legal responsibility. This information does not grant permission, license, or any rights or recommendations to practice any form of proprietary intellectual property without obtaining the appropriate license or grant from the property owner. The information is offered solely for your consideration, investigation and verification, but you must determine the suitability of the product for your specific application. The purchaser assumes all risk of use of handling the material, including but not limited to transferring the material within purchaser's facilities, using the material in applications specified by the purchaser and handling any product which includes the material, whether or not in accordance with any statements made herein.