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## Laponite JS

### The Clear Leader

### Description

Laponite JS is a synthetic layered fluorosilicate modified with an inorganic polyphosphate dispersing agent. It hydrates and disperses in water to give virtually clear and colourless colloidal sols of low viscosity. At 18% concentration in water these sols will remain free flowing for at least 1 month.

### Application

Laponite JS may be used in coating mixes to produce smooth, coherent, electrically conductive and anti-static films on paper, film and other surfaces. It may also be used in formulations to produce inkjet receiving coatings suitable for full colour printing. Films of Laponite JS demonstrate effective barrier properties by reducing migration of macromolecules and colloidal particles. Examples of binders suitable for use with Laponite JS include polyurethane, acrylic, vinyl acetate, SBR and polyvinyl alcohol.

### Typical Characteristic

Appearance- free flowing white powder  
Bulk Density- 950 kg/m<sup>3</sup>  
Surface Area (BET)- 300 m<sup>2</sup>/g  
pH (2% suspension)- 10.0

Chemical Composition (dry basis)	
SiO <sub>2</sub>	50.2%
MgO	22.2%
Li <sub>2</sub> O	1.2%
Na <sub>2</sub> O	7.5%
P <sub>2</sub> O <sub>5</sub>	5.4%
F	4.8%
Loss on Ignition	8.7%

### General Specifications

Sol Stability	Fluid after 28 days
Sieve Analysis	2% Max >250 microns
Free Moisture	10% Max

#### Rockwood QA Test Code

ELP-L-2G
ELP-L-6A
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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