

# LAPONITE XLS

## The Clear Leader

### Product Data

#### Special Features and Benefits

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.

#### Recommended Use

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.

#### Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

|  |  |
|--|--|
| Appearance:  | Free flowing white powder                    |
| Bulk Density:  | 1000 kg/m <sup>3</sup>                       |
| Surface Area (BET):  | 330 m <sup>2</sup> /g                        |
| pH (2 % suspension):   | 9.7  |
| Chemical Composition (dry basis) SiO <sub>2</sub> :              | 54.5 %                                       |
| Chemical Composition (dry basis) MgO:                            | 26.0 %                                       |
| Chemical Composition (dry basis) Li <sub>2</sub> O:              | 0.8 %  |
| Chemical Composition (dry basis) Na <sub>2</sub> O:              | 5.6 %  |
| Chemical Composition (dry basis) P <sub>2</sub> O <sub>5</sub> : | 4.1 %  |
| Chemical Composition (dry basis) Loss on Ignition:               | 8.2 %  |
| Pb:  | <3ppm  |
| As:  | <1ppm  |
| Sb:  | <2ppm  |
| Cd:  | <2ppm  |
| Ba:  | <4ppm  |
| Hg:  | <2ppm  |
| Sol Stability:   | Fluid after 24 hours, QA Test Code: ELP-L-2B |
| Sieve Analysis:  | 2 % Max >250 microns, QA Test Code: ELP-L-6A |
| Free Moisture:   | 10 % Max, QA Test Code: ELP-L-5A             |
| Lead:  | 5mg/kg Max, QA Test Code: ELP-L-16A          |
| Arsenic:   | 1mg/kg Max, QA Test Code: ELP-L-17A          |

#### Storage and Transportation

Laponite is hygroscopic and should be stored under dry conditions.

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