

# LAPONITE XLG

## The Clear Leader

### Product Data

#### Special Features and Benefits

LAPONITE XLG is a synthetic layered silicate with a low heavy metals content. It is insoluble in water but hydrates and swells to give clear and colourless colloidal dispersions in water or aqueous solutions of alcohols. At concentrations of 2 % or greater in water, highly thixotropic gels are obtained.

#### Recommended Use

Used for imparting 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):                                 | 370 m <sup>2</sup> /g                        |
| pH (2 % suspension):                                | 9.8  |
| Chemical Composition (dry basis) SiO <sub>2</sub> : | 59.5 %                                       |
| Chemical Composition (dry basis) MgO:               | 27.5 %                                       |
| Chemical Composition (dry basis) Li <sub>2</sub> O: | 0.8 %  |
| Chemical Composition (dry basis) Na <sub>2</sub> O: | 2.8 %  |
| Chemical Composition (dry basis) Loss on Ignition:  | 8.2 %  |
| Pb:   | <3ppm  |
| As:   | <1ppm  |
| Sb:   | <2ppm  |
| Cd:   | <2ppm  |
| Ba:   | <4ppm  |
| Hg:   | <2ppm  |
| Gel strength:                                       | 22g min, QA Test Code: ELP-L-1H              |
| 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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