

# LAPONITE RD

## The Clear Leader

### Product Data

#### Special Features and Benefits

LAPONITE RD is a synthetic layered silicate. It is insoluble in water but hydrates and swells to give clear and colorless colloidal dispersions. At concentrations of 2 % or greater in water, highly thixotropic gels can be produced.

#### Recommended Use

Used for imparting a shear sensitive structure to a wide range of waterborne formulations. These include household and industrial surface coatings, cleansers, ceramic glazes agrochemical, oilfield and horticultural 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 %
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

#### Storage and Transportation

Laponite is hygroscopic and should be stored under dry conditions.

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