

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 ³
Surface Area (BET):	370 m ² /g
pH (2 % suspension):	9.8
Chemical Composition (dry basis) SiO ₂ :	59.5 %
Chemical Composition (dry basis) MgO:	27.5 %
Chemical Composition (dry basis) Li ₂ O:	0.8 %
Chemical Composition (dry basis) Na ₂ 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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