



# Laponite RD

## Description

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

## Application

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 Characteristics

Property	
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%
MgO	27.5%
Li <sub>2</sub> O	0.8%
Na <sub>2</sub> O	2.8%
Loss on Ignition	8.2%

## General Specifications

Property	Specification	Rockwood QA Test Code
Gel strength	22g min	ELP-L-1H
Sieve Analysis	2% Max >250 microns	ELP-L-6A
Free Moisture	10% Max	ELP-L-5A
Specifications can be agreed to meet individual requirements.		

## Storage

Laponite products are hygroscopic and should be stored under dry conditions.

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