

O58935 Laponite® RD

Laponite® RD is a synthetic layered silicate. It is insoluble in water but hydrates and swells to give clear and colorless colloidal dispersions. At concentration 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 water-based formulations. These include household and industrial surface coatings, cleansers, ceramic glazes, agrochemical, oilfield and horticultural products.

Typical characteristics:

Appearance:	free flowing white powder
Bulk Density:	1.0 g/cm ³
Surface Area (BET):	370 m ² /g
pH (2% suspension):	9.8

Chemical analysis (dry basis):

SiO ₂ :	59.5 %
MgO:	27.5 %
Li ₂ O:	0.8 %
Na ₂ O:	2.8 %
Loss on ignition:	8.2 %

General specifications:

Gel strength:	> 22 g
Sieve analysis (250 µm):	< 2 %
Free moisture (105°C):	< 10 %

Storage:

Laponite® is hygroscopic and should be stored under dry conditions.