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Laponite RDS

The Clear Leader

Description

Laponite RDS is a synthetic layered silicate incorporating an inorganic polyphosphate peptiser. It hydrates and swells in water to give clear and colourless colloidal dispersions of low viscosity known as sols. At 10% concentration in water, these will remain free flowing for 24 hours. On addition of small quantities of electrolyte, highly thixotropic gels are formed rapidly.

Application

Laponite RDS may be utilised as a predispersed liquid concentrate and added to formulations at any point during manufacture. It is used to impart a shear sensitive structure to a wide range of waterborne formulations including household and industrial surface coatings, cleansers, agrochemical and horticultural products. Laponite RDS may be coated onto paper or other surfaces from concentrated sols to give smooth, coherent, and electrically conductive films.

Typical Characteristic

Appearance free flowing white powder
 Bulk Density- 1000 kg/m³
 Surface Area (BET)- 330 m²/g
 pH (2% suspension)- 9.7

Chemical Composition (dry basis)	
SiO ₂	54.5%
MgO	26.0%
Li ₂ O	0.8%
Na ₂ O	5.6%
P ₂ O ₅	4.4%
Loss on Ignition 8.0%	

General Specifications

Sol Stability
 Sieve Analysis
 Free Moisture

Fluid after 24 hours
 2% Max >250 microns
 10% Max

Rockwood QA Test Code
 ELP-L-2B
 ELP-L-6A
 ELP-L-5A

Specifications can be agreed to meet individual requirements.

Storage

Laponite is hygroscopic and should be stored under dry conditions.

For additional information or technical assistance contact Southern Clay Products, Inc. toll free at 800-324-2891.

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