



HEMINGS

NANJING HEMINGS NEW MATERIAL

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Lithium Magnesium Sodium Silicate

(Hatorite® RDS)

The Clear Leader

Description

Hatorite RDS is a synthetic layered silicate incorporating an inorganic polyphosphate peetiser. 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

Hatorite RDS may be utilized as a pre-dispersed 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.

HATORITTE RDS may be coated onto paper or other surfaces from concentrated soles to give smooth, coherent, and electrically conductive films.

Typical Characteristic

Appearance	free flowing white powder
Bulk Density	1000 kg/m ³
Surface Area (BET)	330 m ² /g
pH (2% suspension)	9.7

Chemical Composition	(dry basis)
SiO ₂	54.5%
MgO	26%
Li ₂ O	0.8%
Na ₂ O	2.8%
P ₂ O ₅	4.4%
Loss on Ignition	8.2%

General Specifications

Gel strength	22g min
Sieve Analysis	2% Max >250 microns
Free Moisture	10% Max
Specifications can be agreed to meet individual requirements.	

Storage

Hatorite RDS is hygroscopic and should be stored under dry condition.