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HECTGEL RD

Highly Purified Synthetic Hectorite

GENERAL INFORMATION

Hectgel RD is a synthetic layered silicate consisting of Li, Mg and Si. Its structure is constituted by two layers of Si-O tetrahedron with one layer of Mg-O octahedron. It can hydrate with water and swell to form clear and colorless colloidal dispersions. Highly thixotropic gels can be formed at concentrations of 2% or more and these gels demonstrate highly shear thinning behavior.

Hectgel RD is used where a shear sensitive waterborne gel structure is desired, having high viscosity under low shear and low viscosity when exposed to high shear. Upon removal of shear the gel viscosity is quickly recovered.

PHYSICAL PROPERTIES

Composition	SiO ₂ 59.8 %, MgO 27.4%, Li ₂ O 0.8%, Na ₂ O 2.9%
Color/Form	Free flowing white powder
Density	1000 kg/m ³
Surface Area (BET)	353 m ² /g
Particle Size, Dry Powder	2% max > 250 μm
Moisture	10% max
Gel Strength	22g min

ADVANTAGES

- Highly Thixotropic
- Fluorine Free
- High Transparency

RECOMMENDED USE

- Cosmetics
- Household & Industrial surface coatings and cleansers
- Multi-color paints
- Horticultural products
- Color pastes
- EOR: Enhanced Oil Recovery



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INCORPORATION

Hectgel RD does not require heat or a chemical activator to reach the proper activation. Hectgel RD can be incorporated directly into the resin. However, in unsaturated and vinyl esters systems, preparation of an 8-12% pregel in styrene is recommended to achieve optimal efficiency. For post-adding Hectgel RD high shear is required.

RECOMMENDED LEVELS

Hectgel RD is typically used at levels of 0.1% to 1% by weight of the system, depending upon the degree of thickening or other properties desired. Laboratory testing is recommended to determine optimal level.

HEALTH AND SAFETY DATA

Before handling this material, read the corresponding Safety Data Sheet (SDS) for safety, health and environmental data.

SHELF LIFE

Hectgel RD is hygroscopic and should be stored under dry condition. Hectgel RDas a shelf life of at least two years from date of manufacture.

CERTIFICATIONS

ISO 9001 Quality System, ISO 14001 Environmental Management System, ISO 18001 Safety System



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