Lomar® LS

Polynaphthalene Sulfonate, Sodium Salt Powder, Low Salt

Lomar® LS Product Bulletin

Lomar® LS is a low salt, sodium neutralized, highly sulfonated low molecular weight polymer. It is a highly effective dispersant for pigments, extenders, and fillers in aqueous media. It retains its dispersing ability over a broad pH range and is especially efficient at pH 9-10.

Lomar® LS has no effect on foaming or surface tension of latexes. It can also be used with anionic or nonionic surfactants when lowered surface tension is desired.

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Technical Data	Typical Properties
Appearance	Fine, tan powder
Active Content, %	91
Na_2SO_4, %	2.5 Max.
Moisture Content, %	6.5 Max.
Solubility, aqueous	Freely in hard or soft water
pH, 10% solution	9-10.5
Appearance, 10% Solution	Clear

General Effects

Prevention of Rapid Sedimentation

Dispersing agents serve to de-flocculate clustered particles. This action decreases the rate of settling from that of flocculants to that of individual particles.

As particles approach colloidal size, they are affected by Brownian movement, and remain suspended for an indefinite period. They eventually settle to form a dense, compact sediment of much smaller volume than that of the flocculants.

Decrease in Viscosity

With more concentrated mixtures, rupture of agglomerates by dispersing agents permits greater freedom of movement of solids and, therefore, decreases viscosity. Stiff pastes, treated with dispersing agents, are easily made fluid. This permits more solids to be introduced for a given stiffness or viscosity.

Applications

Lomar® LS is recommended in any application involving dispersing of solid particles in aqueous media. It is also recommended for reducing the viscosity of solids dispersed in water.

Emulsion Polymerization

Lomar® LS acts a viscosity suppressant in the cold styrene-butadiene rubber process. It eliminates the formation of pre-coagulated polymer when added at the rate of 0.15% on the combined weight of the monomers.

Pigments

Lomar® LS is an efficient viscosity reducer for pigment slurries. The recommended amount depends on the pigment or filler being dispersed, its particle size, and wettability. As little as 0.2% on the weight of the dry solids is sufficient for most pigments. Others require two or more percent for effective fluidity. **Lomar® LS** has no effect on the ultimate particle size.

Printing

Lomar® LS is recommended when printing with pigments or insoluble dyes. Improved color dispersions give smoother, more uniform films. Colors are more opaque and display more hiding power. Improved dispersion also enhances the reflectance and yields brightly toned prints

Rubber

Lomar® LS is extensively used as a dispersant and stabilizer in the synthetic rubber polymerization process. High solids, low viscosity latexes are possible with the use of **Lomar® LS**. **Lomar® LS** improves the emulsion stability of the latex, but does not interfere with the coagulation process. Solutions of **Lomar® LS** are light amber and will not add color to the latex in the amounts normally used.

Concrete Admixtures

Lomar® LS can be used as a water reducing agent to improve workability and concrete strength.

Regulatory Status for Agricultural Use

Lomar® LS complies with 40 CFR 180.1001 (d). This regulation exempts residues from the requirement of a tolerance when used in accordance with good agricultural practice as an inert (or occasionally active) ingredient in pesticide formulations applied to growing corps only.

Technical Service

Our technical service and sales departments are available upon request to assist you in the use of **Lomar® LS** in your particular application.

Packaging, Storage & Handling

Lomar® LS is shipped in multiwall paper bags of 50 lb. Store in a dry place and keep tightly covered.

Additional handling information is contained in a Safety Data Sheet (SDS), which is available upon request.

Lomar® LS freight is classified as: Cleaning, Scouring or Washing Compounds NOI; or Soap, NOI Liquid or other than Liquid or Soap Powders •