GEO SPECIALTY CHEMICALS

Lomar® D

High Molecular Weight Polynaphthalene Sulfonate, Sodium Salt For Gypsum Plasters

Lomar® D Product Bulletin

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Lomar® D is a more highly polymerized naphthalene sulfonate than most condensates in this chemical class. Supplied as a sodium salt, **Lomar® D** ensures high solids dispersions with low viscosities. In most cases, **Lomar® D** is the most effective condensed naphthalene sulfonate for this purpose.

Technical Data	Typical Properties
Appearance	Tan, free-flowing powder
Moisture, %	7 Max.
Bulk Density, lb/ft^3	38-42
Active Content, %	84
Na_2SO_4 Content, %	12
pH, 2%	9-10

General Functions

Prevention of Rapid Sedimentation

Dispersing agents serve to deflocculate 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 into fluid. This permits more solids to be introduced for a given stiffness or viscosity.

Application

Lomar® D has been developed specifically for use in the manufacture of gypsum products. Due to variations in rock sources, calcining methods, and individual plant operating parameters, dosage levels will vary from 0.25 - 3% per weight of gypsum. Extensive testing indicates that higher levels of water reduction can be achieved with **Lomar® D** than with conventional water reducers. This high range water reduction will allow the flexibility to achieve the following:

- ♦Lower water requirements.
- ♦Increased strength due to lower water / stucco ratio.
- ♦Reduced enabling prior to the initial setting gives better workability, improved mold coverage, and uniformity.
- ♦Improves accuracy of castings due to reduced expansion upon set.
- ♦Less cracking minimizes rejects.
- ♦No Retardation - **Lomar® D** will not retard set even at higher dosage levels.

Packaging, Storage & Handling

Lomar® D is available in 50 lb / 22 kg paper bags or 1700 lb / 770 kg supersacks.

Store in a dry place.

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

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