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VANDERBILT

Chemicals Technical Data

No. 1218
Rubber and Plastics Department

DARVAN® SMO Surfactant

A Surface-Conditioning Agent for Latex Compounds

DARVAN surfactants are processing aids useful in the manufacture of elastomeric latex products. They are water-soluble, allowing for easy incorporation into latex compounds. Many of the problems encountered during the compounding and processing of latex, such as inferior mechanical stability and surface striations, can be easily resolved by using **DARVAN** surfactants.

The use of **DARVAN SMO** in latex compounds helps to eliminate the surface striations which sometimes appear in dipped films. This in turn improves the surface appearance of the dipped films.

Chemical Composition	
Active Ingredient	Sodium Salts of Sulfated Methyl Oleate
Physical Properties	
Physical State	liquid
Color	cream to clear amber
Density, Mg/m ³	1.08 ± 0.02
% Activity	27 to 33
pH (10% Solution)	6.5 to 7.5
Application	
Surface Conditioning Agent	0.25 to 3 phr are normally used to help eliminate surface striations in most latex articles.
Latex Dipping Agent	0.25 to 3 phr of DARVAN® SMO Surfactant will greatly improve the dipping properties of most latexes, but the product is most effective in Neoprene Liquid Dispersions .

It is important to note that **DARVAN SMO** is sometimes sensitive to temperature, moisture, general handling, and storage. This sensitivity is indicated by the appearance of the product, which can become cloudy or separate into layers, although its functionality is not affected. **DARVAN SMO** can easily be restored to its clear amber color by slightly heating the emulsion (~150°F) while stirring or agitating the product.

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