PRODUCT DATA

ECOPOL-17 CATIONIC GUAR

Substantive Natural Polymer for Hair and Skin Care

CTFA Nomenclature: Guar Hydroxypropyltrimonium Chloride

ECOPOL-17 is a highly substituted cationic (quaternary) guar gum polymer that provides the dual benefits of conditioning and thickening properties for hair and skin care products. This polymer is derived from renewable vegetable source and has high molecular weight. The highly substituted cationic charged polymer is substantive to anionic surfaces such as skin and hair.

Specifications:

Degree of substitution----------0.17-0.20
Viscosity, 1% (2h)----------1500 - 3000
Moisture (%)---------- 6-10
Odor----------Pass
pH, 1% as is----------8.5-11.5
Particle Size %, min. through
U.S. Mesh 100----------100
U.S. Mesh 200----------80
Staphylococcus Aureus--------Negative
Pseudomonas Aeruginosa-----Negative
Salmonella----------Negative
E. Coli----------Negative
Plate Count ----------500 max

Application: ECOPOL-17 is an ideal polymer for conditioning shampoos, cream rinse conditioners, lotions, creams and other personal care products. The high cationic charge provides substantivity to hair and skin. The cationic polymer provides excellent conditioning properties and also acts as the primary viscosifier of a shampoo.

Shampoos: ECOPOL-17 is compatible with most anionic surfactants used in hair care. A use level of 0.25-0.5% is recommended, based on the weight of the final formulation. Alternatively it can be used as a primary

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viscosifier. A use level of 1.0-1.5% is recommended.

Liquid Soap: ECOPOL-17 can provide a soft and luxurious after-feel to the skin when used in liquid soaps at a level of 0.5% or less.

Lotions: ECOPOL-17 can easily be added to the water phase of hand, body, and facial emulsions which will provide the substantivity. Recommended use levels are 0.5% or less.

Shaving Creams: Addition of ECOPOL-17 to aerosol shaving creams will give better foam stability, lather, skin lubrication, skin softening properties, and after-feel. Use levels of 0.2% or more are recommended.

Solution Preparation: ECOPOL-17 is easily dispersible. Disperse the polymer into a container of cold water under good agitation. Once the polymer is fully dispersed full viscosity will develop in 15 minutes to one hour after adjusting solution pH to about 6.5 with Citric Acid.

Storage: Product should be stored in a cool, dry place.

Product The polymer is chemically modified natural polysaccharide and is listed in the CTFA Cosmetic Ingredient Dictionary.

Safety: Please read and understand the Material Safety Data Sheet (MSDS) before using this product.

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