

GELWHITE-GP XR

Gelling Agent for Water Phases in Cosmetic Applications

Product Data

INCI Name

Bentonite

Product Description

GELWHITE-GP XR is a highly purified montmorillonite refined from selectively mined natural white bentonite deposits. It is used as a thixotropic agent in water-based systems with excellent anti-settling and stabilizing properties. GELWHITE-GP XR has been sterilized by gamma irradiation.

Typical Properties

The values indicated in this data sheet are typical and do not constitute specification limits.

Form:	Fine powder
Color:	White
G.E. Brightness:	min. 79
Moisture:	max. 8 %
Viscosity in Water (5% Solids, 20rpm)	
Brookfield @ time of production:	min. 500 cPs
Dry Sieve (%.-200M):	min. 75%
Wet Sieve (%.-200M):	0 %
pH Value (2% suspension in water):	9.5 - 10.5
Escherichia Coli:	0.0
Microbial APC Count:	1000cfu/g.

Recommended Use

Application areas:	Personal Care:
	Lotions Anti-wrinkle Lotions (e.g. with fruit acids) Sunscreen Products Antiperspirants Facial masks

Color Cosmetics: Foundations

Incorporation and Processing Instructions

To get the optimum efficiency, a complete dispersion of the material is required. Therefore GELWHITE-GP XR should be incorporated applying high shear forces e.g. by using a dissolver or a mill. To facilitate the dispersion, warm water can be used. GELWHITE-GP XR is slowly added to the water under slow agitation. Then mix at high shear for 15 minutes. GELWHITE-GP XR can also be incorporated as powder added to the grind base. GELWHITE-GP XR can also be used as pre-manufactured pre-gel (containing 5 - 10% GELWHITE-GP XR). To avoid post thickening effects, this pre-gel should be allowed to age overnight.

Recommended Levels

GELWHITE-GP XR can be used to thicken and stabilize emulsions. Depending on requirements, between 1% and 10% of GELWHITE-GP XR (based upon total formulation weight) are recommended.

These levels are suggested as guideline; optimum levels can be determined by laboratory tests.

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Special Note

GELWHITE-GP XR is ideal for creams that require body, texture, thixotropy, suspension and stability. This product has high cation exchange capacity and is ideal for absorption of oils. GELWHITE-GP XR is purely inorganic and stable against diluted acids and bases. GELWHITE-GP XR is compatible with anionic and nonionic surfactants.

Storage and Transportation

GELWHITE-GP XR should be stored dry in unopened, original packaging at temperature between 0°C and 30°C.

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