GELWHITE-H XR

Gelling Agent for Water Phases in Cosmetic Applications

Product Data

INCI Name
Bentonite

Product Description
GELWHITE-H XR is a highly purified white bentonite manufactured from carefully selected, extremely pure ore deposits. GELWHITE-H XR is used as a thixotropic agent in water-based systems for excellent anti-settling and stabilizing properties. GELWHITE-H 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
Water Content:	5.0 % - 8.0 %
Wet Sieve +200 mesh:	0.0 %
pH Value (2 % suspension in water):	9.5 - 10.5
G.E. Brightness:	min. 77
Swelling (2g in 100 mls):	min. 24.0
Gel Formation:	max. 2.0 ml
Arsenic:	< 5 ppm
Lead:	< 40 ppm
XRD Powder:	Pass
X-Ray Diffraction (PE Glycol):	Pass
E.coli (Neg.):	Pass
Anaerobic Plate Count (max. 100cfu/g):	Pass
Bentonite USP-Test	Pass

Recommended Use

Application areas:	Personal Care:	Cream and Lotion
		Anti-wrinkle Lotion (e.g. with fruit acids)
		Sunscreen Product
		Antiperspirant
		Facial mask
		Bath and Shower Gel
	Color Cosmetics:	Liquid Make-up
		Foundation
		Blush
		Eye Product

Incorporation and Processing Instructions
To get the optimum efficiency, a complete dispersion of the material is required. Therefore GELWHITE-H 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-H XR is then added slowly to the water (emulsion) under slow agitation. GELWHITE-H XR can also be incorporated as powder added to the grind base.

GELWHITE-H XR can also be used as pre-manufactured pre-gel (containing 5 – 10 % GELWHITE-H XR). To avoid post thickening effects, this pre-gel should be allowed to age overnight. Stirring for approx. 15 minutes under high shear is therefore recommended.

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

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

Special Note
GELWHITE-H XR exhibits low acid demand and interacts with both inorganic and organic cations. In formulations that requires tightly controlled rheology and reduced syneresis or that are acidic in pH, GELWHITE-H XR is ideally suited. GELWHITE-H XR is purely inorganic and stable against diluted acids and bases. Gels produced with GELWHITE-H XR withstand oxidation or microbial degradation. GELWHITE-H XR is compatible with anionic and nonionic surfactants.

Storage and Transportation

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

BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com/additives