

GELWHITE-H XR

High-purity rheology additive based on carefully selected natural bentonite, for use in personal care applications as a thixotropic gelling agent in aqueous systems with excellent anti-settling and stabilizing properties (NATRUE Approved). Gamma irradiation sterilized version of GELWHITE-H.



NATRUE Approved

Product data

Composition

Highly purified phyllosilicate
 (INCI: Bentonite or Montmorillonite)

Vegan

Typical properties

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

Bulk density:	290-434 kg/m ³
pH value (2 % in water):	9.5-10.5
Water content:	5-8 %
Sieve residue (200 Mesh/74 µm):	0.0 %
Lead content:	< 40 mg/kg
Arsenic content:	< 5 mg/kg
Total viable count:	< 100 cfu/g
Swelling:	min. 24 ml
Brightness:	min. 77
Color:	white
Delivery form:	powder

Storage and transportation

Product shelf life in unopened original packaging: 36 months

Store dry in sealed containers. To be stored and transported between -30 °C and 50 °C.

Applications

Personal care

Special features and benefits

GELWHITE-H XR is a highly purified bentonite obtained from selectively mined, extremely pure mineral deposits by means of a unique process providing unequalled high purity, whiteness, and brightness. The additive is purely inorganic and stable against diluted acids and bases. It is highly compatible with anionic and nonionic surfactants and can be used to thicken and stabilize oil-in-water emulsions. Gels produced with GELWHITE-H XR are resistant to oxidation and microbial degradation.

Recommended use

Creams and lotions	<input checked="" type="checkbox"/>
Sunscreen products	<input checked="" type="checkbox"/>
Antiperspirants/deos	<input checked="" type="checkbox"/>
Facial masks	<input checked="" type="checkbox"/>
Bath and shower gels	<input checked="" type="checkbox"/>
Liquid makeup	<input checked="" type="checkbox"/>
Blush	<input checked="" type="checkbox"/>
Eye makeup	<input checked="" type="checkbox"/>
Hair care products	<input checked="" type="checkbox"/>
Hair styling products	<input checked="" type="checkbox"/>

especially recommended recommended

Recommended levels

1-10 % additive (as supplied) based on the total formulation, depending on the application.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

GELWHITE-H XR is hydrophilic and can be easily wetted by water. For maximum efficiency, complete dispersion of the material is required. Warm water can be used to facilitate the dispersion. The additive is added as a powder to pure water while stirring slowly. The stirring speed is then increased (800–3000 rpm) and the powder is dispersed for 15 minutes. GELWHITE-H XR should be completely hydrated (recommended hydration time: 10 minutes) before all other components of the formulation are added to the dispersion. The additive can also be used as a prepared pre-gel (with 5–10% GELWHITE-H XR). To avoid post-thickening effects, this pre-gel should be allowed to age overnight. It is then slowly added to the water phase of the formulation while stirring at low speed.



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