

GELWHITE-H

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 (COSMOS APPROVED, NATRUE Approved).



**COSMOS
APPROVED**



NATRUE Approved

Product data

Composition

Highly purified phyllosilicate (INCI: Bentonite)

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 H ₂ O):	9.5–10.5
Water content:	5–8 %
Sieve residue (200 Mesh/74 µm):	0 %
Swelling (2 g in deionized water):	min. 24 ml
Lead content:	< 40 mg/kg
Arsenic content:	< 5 mg/kg
GE brightness:	min. 77
Color:	white
Delivery form:	powder

Storage and transportation

GELWHITE-H should be transported and stored dry in the unopened original packaging at temperatures between 0 °C and 30 °C.

Applications

Personal care

Special features and benefits

GELWHITE-H 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 are resistant to oxidation and microbial degradation.

Recommended use

Creams and lotions	
Sunscreen products	
Antiperspirants/deos	
Facial masks	
Bath and shower gels	
Liquid makeup	
Blush	
Eye makeup	
Hair care products	
Hair styling products	

 especially recommended  recommended

Recommended levels

1–10 % additive (as supplied) based upon 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 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 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). 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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This issue replaces all previous versions.