technical data sheet



personal care specialties

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BULLETIN VC-5720-1

natrathix™ bio cellulose

nature-derived, biodegradable thickener and emulsion stabilizer

formulator benefits

- nature-derived from non-GMO, sustainably sourced¹ cellulose
- o natural origin content > 84% according to ISO16128-2:2017
- o inherently biodegradable
- o COSMOS-validated, vegan suitable
- o high electrolyte and mineral tolerance
- o no neutralization required
- o cold processible
- o compatible with other nature-derived thickeners
- effective across a wide pH range (4-8)

formulation benefits

- delivers thickening and suspension benefits to a variety of formulation systems
- o enables clear formulations
- o improves emulsion stability
- demonstrates synergy when used with other common thickeners
- improved aesthetics over most common natural thickeners
- o desirable skin after-feel

applications

leave-on skin care

product forms skin creams, lotions, gels, face masks, sun care, foundations, BB creams **available formulations from Ashland** creams, lotions, gel serum, sunscreen cream and lotions

chemistry

INCI name: Cellulose Gum



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¹suppliers have made commitments to utilize standards set by the Forest Stewardship Council (FSC) and/or Program for the Endorsement of Forest Certification (PEFC).

typical properties

appearance	beige granulated powder
moisture content	
pH (1% aqueous solution)	~7
viscosity, mPa.s (1% aq, Brookfield LV, spindle#4, 30rpm, 3mn, 25°C):	~5000
viscosity, mPa.s (1% aq, Brookfield RVT, helipath T-bar spindle#A, 5rpm,	1mn, 25°C) : 7000-10000

formulation guidelines

recommended use levels	for suspension: 1.2-1.5% for emulsions: 0.4- 1.3%
temperature/mixing conditions	cold processible disperse in water and mix for at least 30 minutes, faster mixing speed will speed incorporation
when to add	polymer is ideally added at the beginning of the formulation to ensure that the polymer is completely hydrated before adding additional ingredients.
tips from Ashland's solvers	for accelerated incorporation you can pre-wet in glycol and/or heat during mixing no neutralization needed add electrolytes and/or minerals after gel has formed

safety, handling, and storage

It is recommended to use the product in rotation on a first-in first-out basis. The product should be stored under dry and clean conditions in its original packing and away from heat. The product is hygroscopic. The packaging is selected in a way to avoid ingress of moisture, but the water content of the packed product will/may increase if not stored properly.

Additional information concerning safety, handling and storage is supplied in the safety data sheet, which can be made available upon request. Such information includes:

- o classification and labelling per regulation for transport and for dangerous substances
- o protective measures for storage and handling

A toxicology summary can also be made available, on a confidential basis, by contacting your local Ashland representative.

regulatory

CAS#: 9004-32-4

ingredient is listed in the China IECIC-2015

other regulatory information is available on request.

