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VANDERBILT

Technical Data

VANATURAL™

Bentonite

The **ESSENTIAL** Mineral for Personal Care



R. T. Vanderbilt Company, Inc.

INDUSTRIAL MINERALS AND CHEMICALS

A Responsible Care® Company

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VANATURAL™

Bentonite Clay

VANATURAL is natural bentonite clay, water-washed to optimize purity and performance. It is recommended as a suspension stabilizer, emulsion optimizer and rheology modifier for all topical products. It is particularly suited for natural and organic personal care products. INCI Name: Bentonite

VANATURAL

- Stabilizes emulsions against separation, particularly at elevated temperatures
- Stabilizes suspensions against particle settling and hard packing
- Provides thickening and absorptive properties in masks and poultices
- Provides a silky, tack-free feel in topical preparations
- Is synergistic with common thickeners such as xanthan gum and CMC
- Reduces the slippery or sticky feel of gums and polymers
- Is compatible with most anionic and nonionic ingredients used in personal care formulations

VANATURAL bentonite is in full compliance with the rules established by the USDA National Organic Program (NOP). The NOP provides regulations and guidance for raw materials used in products claimed as organic or to contain organic ingredients (7 CFR 205.600 through 205.607). Bentonite is listed as an allowed component in such products. VANATURAL bentonite is therefore recommended for use in organic personal care products.

VANATURAL disperses easily into water and hydrates rapidly. As shown in the following table, hydration is directly proportional to the amount of energy imparted: it increases as mixing time, mixing intensity or water temperature increase. In emulsions or other formulations requiring heat for preparation, clay hydration can be conveniently carried out while the water is being heated. In order to avoid interference with the hydration process, other ingredients should be withheld from the water until after **VANATURAL** is hydrated.

VANATURAL			
Water	Mixer Type	Mixer Speed	Minimum Suggested Mixing
25°C	Homogenizer	3000	20 minutes
75°C	Homogenizer	3000	10 minutes
25°C	Propeller	800	30 minutes
75°C	Propeller	800	20 minutes

TYPICAL PROPERTIES

Physical Form:	Free-Flowing Fine Granules
Color:	White
pH, 5% Aqueous Dispersion:	8.5 – 9.5
Moisture Content:	8% Maximum

For samples, specifications and Material Safety Data Sheets on **VANATURAL**, please access the R.T. Vanderbilt Company, Inc. web site at www.rtvanderbilt.com or contact:

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