

NATIVACARE™ 9330

Description: NATIVACARE™ 9330 is a non-ionic, certified organic natural polymer derived from tapioca, which can be used to modify the rheology of cosmetic products, whilst improving skin feel properties. It is particularly suitable for creating stable smooth, elegant texture in emulsion-based products. NATIVACARE™ 9330 is also an approved EU food ingredient, which meets the Food Chemicals Codex (FCC) monograph definition and requirements for food starch, unmodified. The product is produced in compliance with Council Regulation (EC) No. 834/2007 on organic production and labelling of organic products and repealing (EEC) No. 2092/91, from organic tapioca and permitted acidity regulators: sodium carbonate and citric acid.

INCI Name: TAPIOCA STARCH

Applications: Personal Care products such as Body Powders, Liquid Talc, Colour Cosmetics, Lotions, Creams, Gels, Deodorants, Dry Shampoo amongst others. This product can also be used as a food ingredient as described above.

Formulator Benefits:

- **Natural Texturizer:**
 - Effective Viscosifier
 - Stabilizes viscosity over time
- NATIVACARE™ 9330 can be used as thickener and stabilising agent, imparting a smooth, short texture at levels of 3 to 5%.
- At higher concentrations NATIVACARE™ 9330 can set to a soft gel with excellent organoleptic characteristics.
- **Aesthetic Enhancer:**
 - NATIVACARE™ 9330 aids flowability /spreadability and appearance
 - NATIVACARE™ 9330 imparts excellent improvement on skin-feel in-use and good reduction of greasiness in emulsions based products
 - NATIVACARE™ 9330 bland odour profile can enhance fragrance character and intensity in the finished product

Usage information:

- Usage levels vary from 2-6% depending on application and can be adjusted based on desired viscosity and formulation; typically:
 - 2-5% in Skin creams and lotions
 - 4-6% in SunCare gels
- **General Preparation Guideline:**
 - NATIVACARE™ 9330 is an organic certified natural polymer based on cook-up tapioca starch with a gelatinisation temperature of approximately 80 to 85 °C. The viscosity of NATIVACARE™ 9330 is extremely stable at high temperatures, and high shear/stress conditions.
 - Typical usage would involve addition to the aqueous phase in a stirred vessel at temperatures below 60 °C and subsequent heating to 110 to 140 °C with a hold time of up to 3 to 5 minutes for indirect systems or several seconds in direct systems. Best holding time to achieve an optimal degree of swelling is depending on the chosen heating profiles and type of heating.
 - Mix the water phase containing NATIVACARE™ 9330 with additional ingredients
 - Cool down before adding fragrance, sensitive oils or extracts.

Effective Date: 01.04.2017 [1]

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Sensory Data

- Appearance Fine powder
- Colour (Visual) White / Cream
- Odour Characteristic

Physical and Chemical Specifications:

- Moisture 15% maximum
- pH (20% slurry) 4.5 – 8
- End Viscosity 200-700 MVU

Typical Data*

- Ash 0.5% typical value

* While this information is typical of the product it should not be considered a specification.

Microbiological Specifications:

Total Plate Count cfu/g	1000 maximum
Yeast cfu/g	100 maximum
Mould cfu/g	100 maximum
E. coli/g	Negative
Salmonella/25g	Negative

Packaging

25 kg Multiply Paper Sack

Storage

Bags should be stored in a clean, dry, well-ventilated area at ambient temperature and protected from exposure to high humidity or odorous material.

Shelf Life

2 years

Regulatory Data

European Union: REACH exempt- listed on Annex IV; Derived from non-GM tapioca; For further information please refer to product I-PIF.

This document is issued on behalf of the Ingredion EMEA Company which is supplying the product. The Ingredion EMEA Companies are part of the Ingredion group of companies. The respective details of each of the Ingredion EMEA Companies are as follows:

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Effective Date: 01.04.2017 [1]

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