

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1003 FGA FOOD GRADE SUPERABSORBENT POLYMER

Product Description

Tramfloc® 1003 FGA is a water absorbing, food grade homopolymer of sodium acrylate used to absorb and retain large quantities of water and nutrients. Tramfloc® 1003 FGA is supplied as a white powder with sizes of ~0.1 mm. Tramfloc® 1003 FGA is approved for direct and indirect food product contact as this formulation meets 21 CFR 177.121 (b) and (c) and 174.5402 (a) (3) under this and other marketing names

Uses

Tramfloc® 1003 FGA is applied in agriculture, horticulture, forestry, mining and other operations where moisture retention is required. Tramfloc® 1003 FGA has an anionic character and is 100% active with a maximum moisture content of 10 per cent. Tramfloc® 1003 FGA is insoluble in water and functions in the usable pH range of 5-9.

Typical Characteristics

Maximum absorption in weight of retained water per weight of Tramfloc® 1003 FGA is as follows. a) deionized water.....350; b) water with 1000 ppm NaCl.....180; c) in soil, measured under a pressure of 2 atm.....225; d) time to reach 60% of maximum absorption, minutes.....10; e) approximate bulk density: 0.8. f) CRC test result is 35. g) Absorption against pressure at 0.7 psi is >5. h) residual monomer content is <1000 ppm. i) specific gravity ranges from 0.6-0.8. j) FSC is 48; k) pH 5.5-6.5; l) moisture content ~5%; Below particle chart shows approximate values.

Particle Size Distribution	EDANA WSP 220, %
> 850 µm	Maximum 1
< 45 µm	Maximum 1

Application Rates

Rates vary according to the conditions of the food trays, environmental conditions, water volumes and characteristics. General laboratory studies should be conducted to estimate product's absorptive capacity in each customer's specific application.

Packaging, Handling and Storage

Tramfloc® 1003 FGA is available in 1000 kgs sacks, packed 20/TL and 16/FCL. Storage temperatures should be between 32-100° F. Unopened bags are hygroscopic and should be stored in a cool, dry place. Shelf life is about 5 years.

Safety and Health

Dry polymer spills should be left dry and swept up at once. Spills of polymer are slippery. Precautions should be taken to prevent them from entering lakes or streams. Polymer can be disposed of according to local regulations or treated with an absorbent material, then collected for subsequent legal disposal. Tramfloc® 1003 FGA has been shown to exhibit a low order of toxicity. Nevertheless, precaution should be taken to prevent inhalation, ingestion or contact with skin or eyes. Observing basic industrial hygiene precautions should prevent any health or safety hazards.

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