

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1001 SUPERABSORBENT POLYMER

Product Description

Tramfloc® 1001 is a water absorbing soil conditioner. Tramfloc® 1001 is a cross-linked copolymer of acrylamide and potassium acrylate used to absorb and retain large quantities of water and nutrients. Tramfloc® 1001 is supplied as a white powder with particle sizes of <0.1-1.0 mm.

Uses

Tramfloc® 1001 is applied in agricultures, horticulture, forestry, mining and other operations where moisture retention is required. Tramfloc® 1001 has an anionic character and is 100% active with a maximum moisture content of 10 per cent. Tramfloc® 1001 is insoluble in water and functions in the usable pH range of 5-10.

Typical Characteristics

Maximum absorption in weight of retained water per weight of Tramfloc® 1001 is as follows. a) deionized water.....380; b) water with 1000 ppm NaCl.....190; c) in soil, measured under a pressure of 2 atm.....225; d) time to reach 60% of maximum absorption, minutes.....10; e) stability of swollen product in sandy soil, 2-4 years

Application Rates

Rates vary according to the conditions of the soils, crops, water supplies, and whether water is from rainfall or irrigation and the quantities and frequencies of watering. General guidelines are: 2-3 kg/m³ in mixed to substrates consisting of sand, peat and compost; 50-100 g/m² in broadcasting.

Packaging, Handling and Storage

Tramfloc® 1001 is available in 25 kg multi wall bags packed 30 per pallet and in 750 kg SuperSaks™, 15 MT/20' container. Storage temperatures should be between 32-100° F. Unopened bags are hygroscopic and should be stored in a cool, dry place. Shelf life is 5 years.

Typical Properties

Tramfloc 1001, 1001A, 1001B		Tramfloc 1002, 1004	
Gel Volume (g/g)	36	CRC (g/g)	31
0.3 psi AUL (g/g)	32		
0.7 psi AUL (g/g)	25	0.7 AAP	25
Loss on Heating (%)	2 - 3	Moisture (%)	2 - 3
Residual Monomer (ppm)	300	Residual Monomer (ppm)	300

Bulk Density (g/cc)	0.70	Bulk Density (g/cc)	0.70
PSD < 150 microns (%)	1 - 2	PSD < 150 microns (%)	1 - 2

The difference in gel volume and CRC (Centrifuge Retention Capacity) is explained in other product data. CRC is the official capacity test of EDANA.

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. Tramfloc® Polymer Cleaner 348 can be used to remove residue from equipment and floors. Polymer can be disposed of according to local regulations or treated with an absorbent material, then collected for subsequent legal disposal. Tramfloc® 1001 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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