

# TRAMFLOC, INC.

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## Technical Information Bulletin

### TRAMFLOC® 1001F SUPERABSORBENT POLYMER

#### **Product Description**

Tramfloc® 1001F is a water absorbing soil conditioner. Tramfloc® 1001F is a homopolymer of sodium acrylate used to absorb and retain large quantities of water and nutrients. Tramfloc® 1001F is supplied as a white powder.

#### **Uses**

Tramfloc® 1001F is applied in agricultures, horticulture, forestry, mining and other operations where moisture retention is required. Tramfloc® 1001F has an anionic character and is 100% active with a maximum moisture content of 10 per cent. Tramfloc® 1001F 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® 1001F 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, years.....2-4; g) approximate bulk density: 0.8.

Particle Size Distribution	Result	Maximum
% on 20 mesh [ $>850 \mu\text{m}$ ]	0.3	1.0
% on 30 mesh [ $850 - 600 \mu\text{m}$ ]	34.8	45.0
% on 50 mesh [ $600 - 300 \mu\text{m}$ ]	53.2	65.0
% on 170 mesh [ $350 - 150 \mu\text{m}$ ]	11.0	30.0
% on 325 mesh [ $150 - 45 \mu\text{m}$ ]	0.7	2.0
% $< 45 \mu\text{m}$	0.0	0.5
Bulk Density	0.60 – 0.73 g/cc	
Retention Capacity (0.90% saline)	28.0 g/g Minimum	
Residual Monomer	300 - 500 ppm Maximum	
Moisture	0.0 – 3.0	
pH	5.9 – 6.3	

#### **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/m<sup>3</sup> in mixed to substrates consisting of sand, peat and compost; 50-100 g/m<sup>2</sup> in broadcasting, 25-50 kg/hectare.

#### **Packaging, Handling and Storage**

Tramfloc® 1001F is available in 25 kgs multi wall bags packed 40 per pallet and in 750 kgs sacks. 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. 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® 1001F 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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