

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1001RD SUPERABSORBENT POLYMER

Product Description

Tramfloc® 1001RD is a water absorbing super absorbent polymer. Tramfloc® 1001RD is a homopolymer of sodium polyacrylate used to absorb and retain large quantities of water and soluble contaminants. Tramfloc® 1001RD is supplied as a white powder with an approximate size range of 0.3-0.6 mm.

Uses

Tramfloc® 1001RD is applied in various river dredging, waste sludge dewatering, pond mucking, hazardous liquid absorption, mining and other operations where moisture retention is required. Tramfloc® 1001RD has an anionic character and is 100% active with a maximum moisture content of ~2 per cent. Tramfloc® 1001RD 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® 1001RD is as follows. a) deionized water....310; b) water with 1000 ppm NaCl.....19; c) in 0.9 % NaCl solution absorption under 0.7 psi load is 17g/g; d) DIW speed of absorption is 80 seconds; e) stability of swollen product in sandy soil, years.....2-4; g) approximate bulk density: 0.72.-0.76. These values are manufacturing specifications. Please consult a COA for specific values. The absorption rate is greater than 300 mls of pure water per gram of SAP. The absorbed liquid is stored as a gel. The retention rate is measured in grams of remaining water after passing through a centrifuge. We offer a various particle sizes in our SAP product line. Finer particles absorb liquid faster than larger particles such as Tramfloc® 1002 and 1004, 2 mm and 4 mm nominally, respectively.

Parameter	Unit	Maximum Value	Minimum Value	Test Result
pH	-	6.7	4.6	6.2
Residual Monomer	PPM	500	300	262
Particle Size Distribution, >850 um	%	2.0	0.1	0.1
800-600 um	%	5.8	6.4	6.1
300-600 um	%	70.0	78.4	74.3
150-300 um	%	16.0	18.0	17.5
75-150 um	%	2.0	1.0	1.5
<75 um	%	0.5	0.0	trace

Application Rates

Rates vary according to the conditions and types of slurries and sludges to be dewatered and whether water is from rainfall, rivers or industrial processes.

Packaging, Handling and Storage

Tramfloc® 1001RD is available in 20 kg multi wall bags packed 40 per pallet, 180 kgs drums and in 1000 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. Tramfloc® 1001RD is not classified as a hazardous product under DOT regulations. HS Classification is 3906.90.5000.

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® 1001RD is non toxic. 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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