

PolyFloc* MP2403

Description and Use

PolyFloc MP2403 is a low charge density, high molecular weight, cationic polymer designed to function as a flocculant in meat processing waste water applications. The product is supplied as a free flowing powder that can provide a cost effective solution compared to anionic emulsion flocculants.

Typical Application

PolyFloc MP2403 is typically employed as the primary flocculant in EAF (Entrapped Air Flotation) applications prior to anionic flocculant addition to increase floc size and solids flotability.

The product can also be effective as a primary flocculant in EAF applications. Particularly, when the substrate pH is below 7.0. The high molecular weight of the product results a very shear stable floc that rapidly separates from the waste stream.

PolyFloc MP2403 is GRAS approved for applications where the separated wastewater solids are recycled into the production of animal feed.

Treatment and Feeding Requirements

PolyFloc MP2403 should be dissolved in water before use. The solution may be prepared in batch fashion by slowly adding the powder to the vortex of an agitated tank, using a dry powder feeder or an eductor.

Do not add water to the dry polymer. Maximum practical solution concentration is 0.5% by weight. Air or low speed (350 rpm) mechanical agitation should continue until complete dissolution is accomplished in about one hour. Dissolution is accelerated with warm water ($\leq 150^{\circ}\text{F}$, 65°C). Avoid high shear or excessive agitation once the product has been dissolved. Diluted solutions should be used within 24 hours.

Further dilution of the stock solution to approximately 0.05% by weight, enhances polymer performance in most applications. For dewatering applications, diluting to approximately $\leq 0.25\%$ may be more practical.

Diluted product may be fed by a pump or by gravity flow to a point where good mixing, but not violent agitation, with the waste stream occurs. High speed mixing decreases the activity of the polymer. Pumps used to transfer the solution to the point of application should be positive displacement gear or piston pumps.

Compatible materials for tanks, pumps, and piping are: stainless steel, HD polyethylene, or polyvinyl chloride. Mild steel is acceptable only in systems where contamination by corrosion products is not a critical problem. Viton and Tygon rubbers are acceptable for pump components and hose linings. (Viton is a registered trademark of DuPont Dow Elastomers. Tygon is a registered trademark of Norton Co.)

Packaging Information

PolyFloc MP2403 is a dry powder, available in bags (40 lb).

Storage and Handling

Store PolyFloc MP2403 under dry, low humidity conditions. Opened containers should be re-sealed prior to storage. Recommended shelf life is one year. Spills should be scooped and/or wiped up before flushing with water.

Safety Precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.



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Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Minnetonka, MN
+1-952-933-2277

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86-21-5298-4573

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