

⁶The Amber Group 56F4 Flocculant Product Fact Sheet



56F4 Flocculant

Product Fact Sheet

Description

The 56F4 series are emulsion PAM anionic and nonionic flocculants of differing molecular weights and charges. They work effectively as coagulant aids or sludge conditioning agents in liquid-solid separation processes in a wide variety of industries. The chemistry range available ensures there is a product suitable for each individual application.

Advantages

- Economical to use – effective at very low dosage levels
- Works over a wide pH range; does not alter the system pH
- Eliminate or reduce use of inorganic salts
- Fast settling rates
- Achieve high solids removal efficiencies
- Easy solubility in water
- Liquid form for easier handling

Principal Uses

Emulsion PAM non-ionic flocculants are recommended for the following liquid-solid separation processes:

- Mechanical dewatering – treating inorganic sludges for increased throughput, solids recovery and effluent quality
- Gravity settling – improves floc formation for faster settling rates increased sludge compaction and improved water quality
- Coagulant aid – settling aid with inorganic and organic coagulants
- Water clarification – improves influent, process and effluent water quality by reducing suspended solids and turbidity
- Dissolved air flotation – result in clearer underflows and greater throughput
- Phosphate removal in wastewater treatment
- Viscosity modifier

Application

Prior to initial use, the emulsion flocculants should be agitated thoroughly via a low RPM (<475 rpm) drum/IBC stirrer or a recirculating pump to ensure uniformity. Stock solutions can be prepared up to 2% concentration via an automated make down unit or on a batch basis. Solutions should be aged 30 minutes for maximum effectiveness. High quality make up water should be used.

Secondary dilution water can be added to the stock solution prior to the addition point to improve mixing with the substrate. A ration of at least 10:1 is recommended. A distributing header or distribution ring is recommended in the treatment stream. Avoid centrifugal pumps for polymer transfer.

Health and Safety

These products can irritate the eyes and skin. Rubber gloves, goggles and protective clothing are recommended for use while handling. They are not acutely toxic by oral and dermal administration to laboratory animals though eye irritation did result. See the Material Safety Data Sheet for complete safety, health and environmental data.

Handling and Storage

Recommended materials of construction include stainless steel, fiberglass, plastic, and glass epoxy-lined vessels. Do not use iron, copper or aluminum. *Spilled polymer is very slippery and should be collected prior to flushing with water.* The shelf life of these products is 6 months when stored at temperatures between 10-40 C. For best results avoid freezing. If the product freezes, thaw completely and mix prior to use.

Government Approval/Regulatory Information

56F4 anionic PAM is certified to ANSI/NSF Standard 60 by NSF International and also approved by the U.K. Drinking Water Inspectorate.

IMPORTANT NOTICE

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