



PAPERTEX CL-300

Coagulants

Description

PAPERTEX CL-300 coagulants are a series of low molecular weight polyDADMACs (polydiallyl, dimethyl ammonium chloride). These liquid cationic polymers have a variety of molecular weights allowing them to work effectively as charge neutralization agents and anionic trash collectors in paper systems, and water clarification aids in processes across a wide variety of industries. These products are especially effective in those applications where a high cationic charge is needed. The range of molecular weights available ensures there is a product suitable for each individual application.

Properties

Products	CL-387	CL-391	CL-392	CL-395
Appearance	← Amber liquid →			
Charge	Cationic	Cationic	Cationic	Cationic
Molecular Weight	20,000	40,000	20,000	50,000
Specific Gravity (25°C)	1.01-1.05	1.01-1.05	1.02-1.06	1.06-1.10
Freezing Point (°C)	← -5 →		← -5 →	
Shelf Life (years)	← 2 →		← 2 →	
Flash Point, closed cup (°C)	← > 93 →			
pH	5.0-8.0	5.0-8.0	5.0-8.0	5.0-8.0
Bulk Viscosity (mPa.s)	300 max	3,200 max	3,200 max	8,000-13,000
% Solids	19-21	19-21	39-41	19-21

Application

PAPERTEX CL-300 coagulants should be metered to the system by the use of a corrosion resistant, positive displacement pump. For maximum effectiveness, add dilution water at a ration of at least 10:1. Optimum results are obtained by dispersing the feed stream and adding at a point of high turbulence to ensure rapid mixing beyond the application point. Ensuring maximum residence time improves performance. PAPERTEX CL-200 coagulants are not sensitive to shear.

When used in water clarification applications, the use of a high molecular weight anionic flocculant aids separation.

When used for charge control in paper systems, a minimum contact time of twenty minutes with the stock is recommended.

For more information on dosages and applications consult your local Papertex representative.

PRODUCT INFORMATION



Health & Safety

The series of PAPERTEX CL-300 coagulants are not acutely toxic by oral or dermal administration to laboratory animals, though eye irritation did result.

Before handling these materials read the corresponding Papertex Material Safety Data Sheet (MSDS) for safety and health data.

Storage and handling

These products can cause slight irritation to eyes and skin. Rubber gloves, goggles and protective clothing are recommended for use while handling.

Recommended materials of construction include stainless steel, fiberglass, plastic, and glass or epoxylined vessels. Do not use iron, copper or aluminum. The shelf life of these products is 12-24 months when stored at temperatures between 5 - 30°C. For best results avoid freezing. If the product freezes, thaw completely and mix prior to use.

Spilled polymer is very slippery and should be absorbed onto an inert material and collected prior to thoroughly flushing with water.

Packaging and shipping

PAPERTEX CL-300 coagulants are packaged and shipped in 200 litre drums, 1000 litre IBCs and bulk quantities.