

# CYFLOC™ coagulants

## Liquid, Resin Amine, cationic: C-500 Series

CYFLOC™ C-500 coagulant resin amines are liquid cationic polymers which effectively replace conventional hydrolyzed metal salts (e.g. alum, ferric, PAC) as the primary coagulants in the clarification of influent and effluent waters. These products do not contain any metal salts. They find special application in waters containing oils, lattices, color and dyes.

### Advantages

- Achieve sparkling clarity in treated waters
- Economical to use versus inorganic coagulant salts
- Does not alter the system pH
- Can replace or reduce inorganic salt use
- Capable of direct feed — simplifies dilution, feed and handling equipment
- Immediately soluble at all concentrations

### Principal Uses

CYFLOC resin amines are especially effective cationic polymers in producing high clarity waters. These products are effective in treating waters and wastewaters from the following industries:

- Oil refining and production
- Paint, latex and rubber
- Automotive
- Paper
- Food processing
- Aluminum can manufacturing

The above are the primary industries for these products. These products may be beneficial in any liquid-solid separation.

### Application

CYFLOC coagulant resin amines should be metered to the system by use of a corrosion resistant, positive displacement pump. For maximum effectiveness, add dilution water at a ratio of at least 10:1. Best results are obtained by dispersing feed stream and promoting high turbulence for rapid mixing beyond the application point. Maximum residence time before the separation process yields improved efficiency.

### Health and Safety

These products can irritate the eyes and skin and repeated or prolonged dermal contact should be avoided. Inhalation of the vapor may irritate the respiratory tract. See the Material Safety Data Sheet for safety, health and environmental data.

### Handling and Storage

Transfer product in a well ventilated area. Use rubber gloves, goggles and protected clothing. Recommended materials of construction include stainless steel, fiberglass, plastic and glass or epoxy-lined vessels. Do not use iron, copper or aluminum. ***Spilled polymer is slippery and should be flushed with water.*** The shelf life of these products is 3 months when stored at temperatures between 5-30°C. DO NOT permit this product to freeze.

### Shipping

CYFLOC C-500 coagulant resin amines are available in 200 litre drums, 1000 litre intermediate bulk containers or bulk shipments.

## CYFLOC Coagulants

### Products\*

#### Typical Properties

	C-507	C-515
Appearance	Light Blue Liquid	Light Blue Liquid
Degree of Charge	Very High Charge	Very High Charge
Relative Molecular Weight	Very Low	Very Low
Specific Gravity @ 25°C	1.01 - 1.04	1.01 - 1.04
Freeze Point	0°C	0°C
Flash Point, closed cup	>93°C	>93°C

#### Product Sales Specification

Total Solids, % (Method KZ 102)	7.4 - 8.0	8.2 - 8.6
pH @ 25°C (Method KZ 103)	1.2 - 2.1	1.2 - 2.1

#### Regulatory Approvals (the following designations meet these regulatory requirements)

Chemical Inventory Control	See MSDS	See MSDS
NSF International	(none)	(none)
Drinking Water Inspectorate (UK)	(none)	(none)

## Government Approval/Regulatory Information

For chemical inventory regulatory control listing information for the U.S., Canada and European Union, see the MSDS.

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