

5.12.2013

# SUPERFLOC® C-490 HMW series

## Cationic Dry PAMs

The Superfloc C-490 HMW series are highly effective cationic flocculants of high molecular weight. They condition solids for dewatering operations and aid water clarification processes in various industries. They show exceptional performance in liquid-solid separations in a wide range of conditions.

### Applications

These products may be beneficial in any liquid-solid separation process. They are especially recommended for:

- Belt filter, centrifuge and screw press dewatering
- Dissolved air flotation
- Filtration
- Thickening
- Water Clarification.

### Benefits

- Dry product minimizes storage requirements
- Economical to use – effective at low dosage levels
- Effective high solids removal
- Effective over a wide range of pH; does not alter the system pH
- Improve production and cake solids.

### Health and Safety

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

For chemical inventory regulatory control listing information, see the MSDS.

### Handling and Storage

Solutions are no more corrosive than water. Recommended materials of construction include stainless steel, fibreglass, plastic, and glass or epoxy-lined vessels. Do not use iron, copper or aluminum.

The shelf life of these products is 24 months when stored in unopened packages in a dry atmosphere at temperatures no higher than 40°C/104°F.

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

### Product Addition

Stock solutions can be prepared up to 0.5 % concentration via an automated make-up unit or on a batch basis. Solutions should be aged 30-60 minutes for maximum effectiveness. High quality make up water should be used.

Secondary dilution water should be added to the stock solution prior to the addition point at a ratio up to 10:1. Centrifugal pumps should be avoided for polymer transfer.

#### Kemira Oyj

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## Delivery

The Superfloc C-490 HMW series products are delivered in 25 kg & 750 kg moisture-resistant bags. Other pack sizes may be available on request.

## Regulatory Approvals

These products may conform to certain regulatory requirements. Please contact your Kemira sales representative for more details, or refer to the appropriate regulatory information sheet.

## Product Properties

	C-494HMW	C-495HMW	C-496HMW	C-497HMW	C-498HMW
Chemical Type	Cationic Polyacrylamide				
Appearance	Off-white, Granular Powder				
Relative Charge	Medium	Medium	High	High	Very High
Molecular weight	Very High	Very High	Very High	Very High	Very High
Bulk Density (kg/litre)	0.75	0.75	0.75	0.75	0.75
pH of 0.5% solution (25°C)	3 - 5				
Viscosity @ 25°C (cp / mPa.sec)					
0.10%	140	160	180	200	200
0.25%	350	430	470	500	530
0.50%	750	950	1000	1100	1100
1.00%	1800	2100	2300	2400	2500

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