

Superfloc[®] C-490 series Cationic Dry PAMs

The **Kemira SUPERFLOC C-490 series** are highly effective cationic flocculants. 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 and recommended materials of construction include stainless steel, fibreglass, plastic, and glass or epoxy-lined vessels. Do not use iron, copper or aluminium.

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.

Shipping

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

TYPICAL PROPERTIES

SUPERFLOC Products	<u>C-491</u>	<u>C-492</u>	<u>C-493</u>	<u>C-494</u>	<u>C-496</u>	<u>C-498</u>
Chemical Type	Cationic Polyacrylamide					
Appearance	Off-white, Granular Powder					
Relative Charge	Very Low	Very Low	Low	Medium	High	Very High
Molecular Weight	High	High	High	High	High	High
Bulk Density (kg/litre)	0.75	0.75	0.75	0.75	0.75	0.75
pH of 0.5% solution (25 °C)	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5
Viscosity @ 25 °C (cp / mPa.sec)						
0.10%	60	80	100	130	150	170
0.25%	150	200	240	300	350	380
0.50%	350	450	500	600	700	800
1.00%	800	1000	1100	1400	1700	2000

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.

Kemira makes this information available as an accommodation to its customers and it is intended to be solely a guide in customer's evaluation of the products. You must test our products, to determine if they are suitable for your intended uses and applications, as well as from the health, safety and environmental standpoint. You must also instruct your employees, agents, contractors, customers or any third party which may be exposed to the products about all applicable precautions. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. You assume full liability and responsibility for compliance with all information and precautions, and with all laws, statutes, ordinances and regulations of any governmental authority applicable to the processing, transportation, delivery, unloading, discharge, storage, handling, sale and use of each product. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use.

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