



ASHA Resins Limited

(Formerly known as Asha Resins Private Limited)

ASHAION C-180M

Cationic Polyelectrolyte Powder

DESCRIPTION:

Ashaion C-180M is a cationic polyelectrolyte powder with a medium charge and a molecular weight range of 10-15 million. It is designed for use in industrial water treatment processes, especially in coagulation, flocculation, and solid-liquid separation operations. This product is particularly effective in treating water with high turbidity, where enhanced flocculation is needed to improve the settling and filtration of suspended solids. Ashaion C-180M is also highly effective in effluent treatment, where it helps remove colloidal matter, oils, and organic impurities, providing better water quality for reuse or discharge.

SPECIFICATIONS:

Parameter	Details
Appearance	Off-white to pale beige powder
Charge	Medium
Molecular Weight	10-15 million
Solubility	Fully water-soluble
Viscosity (1% Solution)	Varies depending on usage
pH Range	5 - 9
Flash Point	Not applicable (non-flammable)

ADVANTAGES:

- 1. Medium Charge Density:** Provides effective coagulation and flocculation for a wide range of water qualities, making it versatile for various applications.
- 2. Enhanced Flocculation:** Improves floc formation, leading to faster settling rates and more efficient filtration.

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Dist. Pune - 412 105
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3. **Cost-Effective:** Requires lower dosages compared to inorganic coagulants, reducing treatment costs for large-scale water or wastewater operations.
4. **Efficient Solid-Liquid Separation:** Suitable for use in industrial effluent treatment, water purification, and other liquid-solid separation processes.
5. **Reduced Sludge Generation:** Produces less sludge than traditional inorganic coagulants, facilitating easier disposal and reducing operational costs.
6. **Non-Toxic:** Safe for use in potable water treatment applications, with minimal impact on the environment.
7. **Effective at a Wide pH Range:** Operates efficiently in a broad pH range (5-9), allowing flexibility for various treatment scenarios.

APPLICATIONS:

- **Municipal Water Treatment:** Used in coagulation and flocculation processes for drinking water treatment, especially in cases of moderate to high turbidity.
- **Industrial Wastewater Treatment:** Effective in the removal of suspended solids, oils, and organic impurities from industrial effluents, such as those found in the textile, paper, and chemical industries.
- **Effluent Treatment Plants:** Ideal for treating effluents from industries like food processing, pharmaceuticals, and metalworking, where coagulation and flocculation are essential for meeting discharge standards.
- **Mining and Mineral Processing:** Used for the treatment of process water and tailings, aiding in the separation of solids from liquids.

DOSAGE:

- **Typical Dosage Range: 1 - 5 ppm**, depending on the water quality, contamination levels, and specific treatment objectives.
- **Jar Testing:** It is recommended to conduct jar tests to determine the precise dosage required for optimal coagulation and flocculation.
- **Industry-Specific Dosage:** For industrial effluent treatment, dosage may vary depending on the composition of the effluent, such as dye concentration or turbidity.

METHODS OF DOSING:

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- **Laboratory:**

Prepare a 1% solution of Ashaion C-180M by dissolving 1 g of powder in 100 ml of distilled water. Conduct jar tests to evaluate coagulation or flocculation and determine the correct dosage.

- **Plant:**

It is recommended to prepare a 0.1% to 1% dilution for plant-scale applications. The product can be fed directly into the treatment system using a metering pump or manual dosing methods, depending on plant specifications.

HANDLING PRECAUTIONS:

- **Dust Control:** Avoid inhaling dust during handling. Use a dust mask or respirator to minimize exposure.
- **Skin & Eye Contact:** In case of contact with skin or eyes, wash immediately with plenty of water.
- **Personal Protective Equipment (PPE):** Wear gloves, goggles, and dust masks while handling the product to prevent irritation.
- **Corrosive Properties:** While Ashaion C-180M is not highly corrosive, it's advisable to handle the product with care to avoid prolonged skin or eye exposure.

PACKAGING:

Ashaion C-180M is available in:

- **25 kg or 50 kg HDPE bags.**

STORAGE & SHELF LIFE:

- Store the product in a cool, dry place, away from moisture and direct sunlight to maintain its quality.
- Ensure the product is kept in its original packaging until use.
- **Shelf life: 12 months** from the date of manufacture when stored under optimal conditions.

MATERIAL HANDLING:

- Use corrosion-resistant equipment for storage and handling.

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- It is recommended to flush feed systems with water before long shutdowns to prevent build-up or clogging.
- Always store the product in a dry, clean environment to avoid contamination.

DISCLAIMER:

The information provided in this product data sheet is based on current knowledge and best practices. However, the actual performance of Ashaion C-180M may vary depending on the specific conditions of use. It is recommended to conduct trials to determine compatibility and effectiveness under local conditions.

For more information, including safety data sheets, please contact us.

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