



**ASHA Resins Limited**

(Formerly known as Asha Resins Private Limited)

# ASHAION C-180U

*Cationic Polyelectrolyte Powder*

## DESCRIPTION:

Ashaion C-180U is an ultra-high charge cationic polyelectrolyte powder with a molecular weight range of 15-25 million. It is designed for applications that require highly efficient coagulation, flocculation, and solid-liquid separation, particularly in water and wastewater treatment processes. Its ultra-high charge density makes it especially effective in treating highly contaminated water and effluents from industries such as textiles, paper, and food processing. Ashaion C-180U is highly effective for color removal, suspended solids removal, and organic contaminants, contributing to enhanced water quality and compliance with environmental standards.

## SPECIFICATIONS:

Parameter	Details
<b>Appearance</b>	Off-white to beige powder
<b>Charge</b>	Ultra High
<b>Molecular Weight</b>	15-25 million
<b>Solubility</b>	Fully water-soluble
<b>Viscosity (1% Solution)</b>	Varies depending on usage
<b>pH Range</b>	4 - 9
<b>Flash Point</b>	Not applicable (non-flammable)

## ADVANTAGES:

- 1. Ultra High Charge Density:** Delivers superior coagulation and flocculation, especially for high-turbidity and highly contaminated water.
- 2. Effective at Low Dosages:** Provides optimal performance with lower dosage rates compared to conventional coagulants, resulting in cost savings.

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3. **Rapid Flocculation:** Accelerates floc formation and settling time, improving efficiency in water treatment processes.
4. **Enhanced Solid-Liquid Separation:** Facilitates easier and more efficient removal of suspended solids from water or wastewater.
5. **Color Removal:** Highly effective in removing color from effluents, particularly in textile and dye industries.
6. **Reduced Sludge Generation:** Produces less sludge than inorganic coagulants, reducing disposal costs and environmental impact.
7. **Safe for Potable Water:** Accepted for use in potable water treatment with low toxicity and minimal environmental impact.
8. **Works Across a Broad pH Range:** Effective in a wide range of pH levels, ensuring flexibility in various applications.

### APPLICATIONS:

- **Municipal Water Treatment:** Ideal for coagulation and flocculation in drinking water treatment plants, especially where high turbidity is present.
- **Industrial Wastewater Treatment:** Perfect for effluent treatment in industries such as textiles, paper, food processing, and chemicals.
- **Effluent Treatment for Dye and Pigment Industries:** Effectively removes color and other contaminants from dyeing and pigment manufacturing effluents.
- **Mining Industry:** Used in the treatment of process water and separation of solids in mining operations.

### DOSAGE:

- **Typical Dosage Range: 0.2 - 2 ppm,** depending on the characteristics of the water or effluent and the required treatment performance.
- **Jar Testing:** It is recommended to perform jar tests to determine the optimum dosage required for effective coagulation and flocculation.
- **Industry-Specific Dosage:** In textile and dye effluents, dosage may vary depending on the nature and concentration of the dye or colorants present.

### METHODS OF DOSING:

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- **Laboratory:**  
Prepare a 1% solution by dissolving 1 g of Ashaion C-180U in 100 ml of distilled water. Add 1 ml of this solution to 1 liter of sample water to achieve a concentration of 1 ppm.
- **Plant:**  
For larger-scale operations, dilute Ashaion C-180U to a **0.1% - 1%** solution. The exact dilution and dosage will depend on the specific water quality characteristics and treatment requirements.

## HANDLING PRECAUTIONS:

- **Dust Control:** Avoid inhalation of dust while handling the product. Wear appropriate respiratory protection.
- **Skin and Eye Contact:** In case of contact, immediately wash the affected area with plenty of water.
- **Personal Protective Equipment (PPE):** Always wear gloves, goggles, and a dust mask to prevent exposure during handling.
- **Corrosive Properties:** Though Ashaion C-180U is not highly corrosive, handling with care is advised to prevent skin or eye irritation.

## PACKAGING:

Ashaion C-180U is available in:

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

## STORAGE & SHELF LIFE:

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

## MATERIAL HANDLING:

- Use corrosion-resistant equipment, such as stainless steel or plastic, for storage and handling.

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- Ensure that feed systems are flushed with water after any prolonged shutdowns to prevent product build-up.
- Keep the product in a clean and dry environment to prevent contamination and preserve its efficacy.

**DISCLAIMER:**

The information contained in this product data sheet is based on the current knowledge and best practices. Asha Resins Pvt Ltd makes no guarantee or warranty regarding the performance of Ashaion C-180U in all applications, as results can vary based on specific conditions. It is recommended to conduct trials to determine the compatibility and effectiveness of the product under local conditions.

For additional information or queries, please contact us.

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