



TECHNICAL DATA SHEET (TDS)

Product Name: ASHAION® CR 420

Product Type: Colour Removal Agent

Application: Textile, Paper & Dye-Based Industrial Effluent Treatment

Product Description

ASHAION® CR 420 is a high-efficiency colour removal chemical formulated specifically for industrial effluents containing synthetic dyes and pigments. It is highly effective in reducing colour, COD, and organic load in wastewater generated from textile dyeing units, paper mills, and dye manufacturing industries. This cationic compound works via precipitation and coagulation mechanisms, enabling quick floc formation and effective sedimentation.

Key Features & Benefits

- Rapid and effective colour removal
- Works efficiently across a broad pH range
- Reduces COD and BOD along with colour
- Enhances overall clarity of treated water
- Compatible with most biological and chemical ETP systems
- Reduces chemical sludge volume compared to inorganic coagulants

Recommended Applications

- Textile dye house effluent
- Paper mill wastewater
- Dye and pigment manufacturing wastewater
- Colour-intensive industrial streams

Usage Guidelines

- Dosing Range: 50–500 ppm (based on effluent characteristics)
- pH Range: Effective between 4.0 and 9.0

- Application Method: Add directly to the effluent stream under agitation. Use in combination with a polymer for improved settling if required.

Physical & Chemical Properties

| Parameter | Specification |
|------------------|-----------------------------|
| Appearance | Clear to pale yellow liquid |
| Ionic Nature | Cationic |
| pH (1% Solution) | 3.0 – 6.0 |
| Solubility | Completely soluble in water |
| Specific Gravity | 1.05 – 1.15 @ 25°C |

Storage & Shelf Life

- Storage Conditions: Store in a cool, dry place away from direct sunlight and heat sources.
- Shelf Life: 12 months from the date of manufacture when stored in original, sealed containers.

Packaging

Available in 50 kg HDPE carboys and 200 kg HDPE drums.
(Customized packaging available on request)

Handling & Safety

- Use gloves and eye protection while handling.
- Avoid contact with skin and eyes.
- Refer to the Safety Data Sheet (SDS) for complete handling and first-aid guidelines.

Disclaimer

The information provided in this TDS is based on our current knowledge and intended to describe the product from a technical perspective. It does not constitute a legally binding assurance of specific properties or suitability for a particular application. Customers are advised to carry out their own tests before using the product.