



Technical Data Sheet (TDS)

Product Name: ASHAION® PE 464 CM

Category: Polyelectrolyte

Type: Medium Charge Cationic Polyelectrolyte

Product Description:

ASHAION® PE 464 CM is a medium charge cationic polyelectrolyte designed specifically for effective dewatering and flocculation in sludge handling applications. Its optimized charge density enables efficient binding of suspended solids, improving sludge compaction and water release. The product offers consistent performance across a wide pH range and is highly suitable for municipal and industrial wastewater treatment plants.

Applications:

- Sludge dewatering in municipal and industrial effluent treatment plants (ETPs)
- Solid-liquid separation in DAF (Dissolved Air Flotation) systems
- Sludge thickening operations
- Enhanced floc formation in mechanical dewatering systems such as belt presses, centrifuges, and filter presses

Technical Specifications:

Parameter	Specification
Physical Appearance	Off-white to pale yellow granular powder
Ionic Nature	Cationic
Charge Density	Medium
Molecular Weight	Medium to High
Bulk Density	0.60 – 0.80 g/cm ³
Solubility	Completely soluble in water
pH (0.5% Solution)	4.0 – 6.0
Shelf Life	24 months from date of manufacture
Packaging	10 kg / 25 kg HDPE-lined bags
Storage Conditions	Store in a cool, dry, and well-ventilated area, away from direct sunlight and moisture

Key Benefits:

- Rapid and efficient sludge thickening and dewatering
- Reduces sludge handling and disposal costs
- Effective over a broad pH range
- Improves performance of mechanical dewatering equipment
- Enhances solid-liquid separation

Handling & Safety:

- Avoid contact with skin and eyes. Use protective gloves and safety goggles during handling.
- In case of contact, wash affected area thoroughly with water.
- Spilled product can cause slippery surfaces—clean up promptly.
- Refer to the Safety Data Sheet (SDS) for complete handling and first-aid information.