



CATFLOC-J

Sugar-cane Juice Clarification product

In clear Juice formation, suspended solids and colloidal particles create challenges in clarification, settling, and filtration. Inefficient solid-liquid separation can reduce process efficiency, increase chemical consumption, and affect product quality. To address these issues, an effective flocculant is required to enhance particle aggregation, improve settling characteristics, and support efficient clarification and dewatering operations.

Catfloc-J is a high-performance, high molecular weight anionic flocculant. The product is designed for industrial applications in sugar manufacturing and water treatment processes. It readily dissolves in water to produce a high-viscosity solution that facilitates efficient flocculation, solid-liquid separation, and sludge thickening across a wide range of operating conditions.

Mode of Action

Catfloc-J works through polymer bridging and charge neutralization mechanisms: The polymer chains adsorb onto suspended particles and bridge them together, forming larger aggregates (floc), promoting flocculation, improving settling and separation. The product enhances clarification, filtration, flotation, and mechanical dewatering processes in both neutral and acidic conditions.

Product Key Benefits

- High-performance, high molecular weight flocculant
- Effective across a wide pH range
- Efficient removal of suspended solids and phosphates
- Improves clarification and settling efficiency
- Reduces requirement of inorganic coagulant salts
- Also suitable for wastewater and effluent treatment applications

Product Application

Catfloc-J is used for **flocculation and clarification of suspended solids in liquid systems**, particularly in the **sugar industry**. It can also be applied in various other industrial processes, including, mechanical dewatering, gravity settling, filtration and flotation systems, dissolved air flotation (DAF) systems and wastewater treatment applications.

Operational Conditions

- Temperature: **30 – 100°C**
- pH: **4 – 9**

Dosage

- 8-15 ppm on juice volume, can be optimized based on plant conditions

Product Characteristics

- **Form:** Granulated free-flowing powder
- **Color:** White
- **Odour:** Characteristic
- **pH (0.2% solution):** 6.5 – 8.5
- **Solubility in water:** Completely miscible
- **Ionic nature:** Anionic

Product Shelf Life & Storage

- Recommended storage temperature: **Below 35°C (95°F)**
- Store in a cool, dry, and well-ventilated area.

Product Packaging

- Available in **25 kg HDPE bags/drums**

Product Handling

- Catfloc-J is not expected to be toxic, but it should be handled using protective clothing, facemask, safety goggles, shoes and gloves.
- Observe all normal procedures for handling industrial chemicals.
- Handle in a well-ventilated area.
- Avoid dust formation.
- Do not breathe dust.
- Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.
- Refer to the MSDS for detailed safety and handling guidelines.



ISO 9001:2015 Certified | FSC 22000 Certified

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