



# VISCOPAN 100

## *Viscosity reducer in sugar refineries*

In sugar manufacturing, high viscosity of massecuite during pan crystallization often creates operational challenges such as poor circulation, longer boiling time, foaming issues, and inefficient separation in centrifugal machines. These factors can negatively affect sugar quality, process efficiency, and recovery. To overcome these viscosity-related challenges, an effective solution is required to improve massecuite fluidity and enhance crystallization efficiency in the boiling house.

ViscoPan 100 is an advanced polymer-based formulation specifically developed for the sugar manufacturing process to manage viscosity-related issues during pan crystallization. The product improves the flow behavior of massecuite and supports better processing efficiency. By enhancing fluidity and process control, ViscoPan 100 helps improve sugar quality, operational efficiency, and recovery during crystallization and centrifugation.

### **Mode of Action**

ViscoPan 100 works by modifying the rheological properties of massecuite during crystallization: Reduces viscosity of massecuite, improving fluidity and circulation in vacuum pans. Enhances heat and mass transfer, leading to reduced boiling time. Improves the separation efficiency of sugar crystals during centrifugation. Helps control foaming and stabilizes boiling conditions. Facilitates improved purity drop from massecuite to molasses, enhancing sugar recovery.

### **Product Key Benefits**

- Improves fluidity and reduces viscosity of massecuite
- Reduces boiling time in vacuum pans
- Enhances brilliance and quality of sugar crystals
- Improves pan circulation and reduces foaming
- Increases purity drop from massecuite to molasses
- Facilitates efficient purging in centrifugal machines
- Improves overall crystallization and process efficiency

## Product Application

ViscoPan 100 is used during **the pan crystallization stage in sugar manufacturing plants.**

## Operational Conditions

- Temperature: **40–105°C**
- pH: **Alkaline conditions**

## Dosage

- **A Massecuite:** 1.5–2.0 kg per 100 tons
- **B Massecuite:** 2.0–2.5 kg per 100 ton
- **C Massecuite:** 4.0–5.0 kg per 100 tons

The product should be added during the crystallization stage for optimal viscosity control and improved process performance.

## Product Characteristics

- Composition: Polymer-based formulation
- Product form: Viscous liquid
- Appearance: Yellow colored liquid
- pH (1% solution): 5.0 – 7.0

## Product Packaging

- Available in **25 kg and 50 kg HDPE containers.**

## Product Shelf Life

- Minimum **24 months** when stored below **25°C.**

## Product Handling

- The product is a **non-hazardous chemical** under normal handling conditions.
- Avoid direct contact with eyes and skin; use appropriate protective equipment if necessary.
- Store in a cool and dry place below **25°C.**
- Refer to the **MSDS** provided with the product for detailed safety and handling instructions.



ISO 9001:2015 Certified | FSC 22000 Certified

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Certifications:

