



SULFOTREAT-S

Unique catalytic formulation for rapid reduction of sulphite toxicity in sugar syrup and molasses streams.

Presence of elevated sulphite levels in syrup or molasses can negatively impact fermentation performance by inhibiting microbial activity and disturbing process stability. This can ultimately result in lower fermentation efficiency and operational challenges in distilleries.

SulfoTreat-S is developed as a catalytic solution to effectively reduce sulphite concentration to below toxic levels without adversely affecting sugar concentration or other key syrup parameters. The product enables improved fermentation conditions through rapid action and easy applicability.

Mode of Action

The product contains a blend of advanced catalysts and oxidizing components that initiate rapid catalytic reactions upon dosing. These reactions facilitate conversion of sulphite species, thereby reducing their toxicity and supporting maintenance of favourable pH and alkalinity conditions required for efficient fermentation.

Product Key Benefits

- Achieves 70–100% sulphite removal
- No adverse impact on sugar concentration or other syrup parameters
- Supports fermentation efficiency greater than 90%
- Helps maintain pH and alkalinity during fermentation
- Completely soluble and easy to apply at recommended dosage

Product Application

SulfoTreat-S can be dosed directly into syrup vessels with adequate mixing and retention time. It may also be pre-dissolved as a 5–10% aqueous solution before dosing to ensure uniform distribution. Alternatively, controlled dosing during fermentation vessel filling can also be practiced.

Operational Conditions

- Sulphite up to 1000 ppm
- Temperature : 30–60°C
- pH : 5–8
- Retention time : 30–45 minutes

Dosage

- Recommended 0.8–1 ppm per ppm sulphite depending on initial concentration.

Product Characteristics

- Off-white granular mixture with bulk density 0.9 ± 0.1 and pH of 10–11 (0.5% solution at 20°C).
Odourless to mild characteristic odour.

Product Packaging

- 5–10 kg moisture-resistant bags / HDPE containers.

Product Shelf Life

- More than 12 months under dry, ventilated storage at $\sim 30^{\circ}\text{C}$ in tightly closed containers.

Product Handling

Use appropriate PPE such as gloves, masks and goggles. Avoid contact with eyes, skin and clothing and prevent inhalation or ingestion. Store in cool, dry covered conditions away from moisture and follow MSDS instructions.



ISO 9001:2015 Certified | FSSC 22000 Certified

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