

## **STEROX K**

### Environmentally Friendly Phosphate-Free Cleaning Powder

### **Technical Data Sheet – for Wineries**

#### **DESCRIPTION:**

**Sterox K** is a cleaning powder formulated for use in the dairy, beverage, wine and beer industry. This is a low sodium, non-foaming, chlorine free and phosphate free alkaline powder, containing active oxygen and additives.

#### **FEATURES:**

- Highly effective for removal of wine tartar, anthocyanin color agents, protein and organic soil.
- White, free flowing powder, non-fragranced with no distinct odor
- Multi-Action product: Cleaning & deodorizing in one action
- Removes fermentation residues
- Good solubility and non-foaming
- Chlorine and Caustic Free for user and environment safety
- Non –corrosive to all surfaces including metals such as stainless steel, HDPE, etc.
- Phosphate Free and Low Sodium

#### **BENEFITS:**

- A premium performance, caustic free product for removal of unwanted tartar, color, organics and protein.
- Decreases cleaning and machine down time due to Sterox K being a fast and efficient action product
- Energy/water efficient – no requirement for heating water\* and shorter cleaning cycle (\*heating will improve cleaning efficiency)
- No need for acid neutralization.
- Relatively safe for workers and environment compared to other cleaning chemical alternatives
- Long Shelf Life
- No phosphates and low sodium in sewer discharge/effluent allows for easier regulatory compliance

#### **APPLICATIONS:**

- Closed systems (CIP), tanks/vats, chillers, piping, and stainless steel utensils.
- Grape separator and decanter.
- Wooden wine casks/barrels and stainless steel vats.
- Cleaning of floors and walls in production area.

#### **SPECIFICATION:**

Appearance: free flowing crystalline powder

Color: white

pH (1% sol.): 10.0 – 11.5

Bulk density: 0.9 - 1.2 g/cm<sup>3</sup>

## **Recommended Dosage and Application Directions**

### **Dosage Levels:**

Prepare cleaning solution by adding Sterox K powder into water at a dosage of 1-3% (eg. 1 kg – 3.0 kg in 100 liters water). For light cleaning or cleaning wine film with light tartrates, use a 1-2 % solution. For medium to heavy cleaning or cleaning wine film with medium to heavy tartrates, use a 2-3% solution.

Below is a suggested dilution chart (pounds / gallons solution):

	Light Cleaning				Heavy Cleaning			
<b>Solution (gallons)</b>	10	50	100	150	10	50	100	150
<b>Dosage of Sterox (pounds)</b>	0.9-1	4.5	9	13.5	1.6	8	16	24

## Application Directions

### Water and Water Temperature

Potable water should always be used. While heating of water is not mandatory, heating of the water to 50-60° Celsius (122 – 140° F) will improve cleaning efficiency and requires a lower cleaning time. (Minimum temperature of water should be about 25° Celsius/ 77° F.)

### Mixing Instructions

Wear appropriate protection before handling and mixing.

Slowly add powder to the water with gentle mixing until the powder is fully dissolved and solution is clear. (A milky solution indicates powder not fully dissolved) For best results, use the solution within 60 minutes of mixing. *Important! Sterox K is highly hygroscopic, either use complete contents of packing or tightly close packing to avoid exposure to air.*

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### Vat / Tank/ CIP Cleaning

- When cleaning tanks that have been chilled for cold stabilization process, allow the tank interior and solids achieve ambient temperature before using the product. This will allow easier cleaning of the tartrate crystals.
- Rinse tank with warm water to remove loose soil and drain.
- Prepare solution of Sterox K and place in tank and connect all parts (pumps, pipes, etc.) of the CIP system.
- Circulate solution for about 10-15 minutes or until all surfaces are clean. Rinse with potable water.

### Manual Cleaning

- For manual cleaning of small containers, prepare a solution of 100-200 grs (0.6-2%) of Sterox K /10 litres water (about 2-3 oz. per gallon).
- Remove loose soil with warm water. Solution of Sterox K may be applied with a cloth, brush or non-scratching scouring pad. Gently scrub/agitate the surface to remove the soil. Thoroughly rinse surfaces with potable water.

**WARNING:** Read SDS before use and take all precautions indicated including wearing of all protective personal equipment indicated.

**SAFETY & STORAGE:** See our SDS for full details.

Store in original containers in dry shady place. Do not mix with acids and other chemicals. In case of eye contact, flush with plenty of water and seek medical attention. In case of ingestion, drink water and seek medical attention.

### Shelf Life:

12 months if stored properly. Thereafter, retesting of material is recommended.