



Product Literature

KEM-CAT 1000

DESCRIPTION:

KEM-CAT 1000 is Catalase enzyme extracted from animal liver and is used for effective “bleach cleanup”. Catalase is capable of breaking down hydrogen peroxide into water and nascent oxygen and thus helps in removal of residual hydrogen peroxide after bleaching of fabric.

CHARACTERISTICS:

Appearance	Liquid
Colour	Amber
Odour	Slight fermentation odour
pH	6.5 — 8.0
Activity temperature	10-50 ⁰ C
Solubility	Soluble in water
Specific Gravity	1.05-1.1

UNIT DEFINITION:

1unit will decompose 1μmole of H₂O₂ Per minute at pH 7.0 and 30°C

COMPATIBILITY:

Chemical Auxiliaries: Compatibility testing is recommended prior to all formulations and applications. Contact with ferric ions should be avoided

PRODUCT ADVANTAGES:

- Efficiently catalyze the transformation of residual hydrogen peroxide into water and nascent oxygen.
- Eco-friendly and biodegradable

PROCESSING CONDITIONS:

Parameters	Conditions
Optimum Temperature	50-55°C
Optimum pH	6.7
Dosage	0.5 — 1%
Duration	30-60mins
Bath ratio	1:5-1:20

INACTIVATION:

The enzyme can be inactivated by raising the temperature above 85°C for 10 minutes, or by raising the pH above 11 for 10 minutes.

TECHNICAL SERVICES:

Chembond Chemicals Ltd. Provides complete technical assistance for conducting on site trials and demonstration to the customers.

PACKAGING: 25kg drums

SHELF LIFE:

8 months, subjected to storage conditions. Recommended storage temperature is 25°C or below. Prolonged storage at temperatures above 30°C should be avoided.

SAFETY:

Enzyme preparation belongs to protein, which may induce sensitization and cause allergic type reaction in sensitized individuals. Prolonged contact may cause minor irritation for skin, eyes or mucous membrane of nose, so any direct contiguity with human body should be avoided. If irritation or allergic response for skin or eyes develops, consult a doctor



Chembond Center

EL—71, MIDC Mahape

Navi Mumbai—400710

Tel: 022 66143106/

Fax: + 22 2768 1294

info@chembondindia.com