



# MIRACHEM INDUSTRIES

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**TECHNICAL LITERATURE**

**EMCOZYME – CR**

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A neutral bioplishing enzyme [cellulase]  
Ensures consistency of the results in  
treated fabric in every batch.





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## Salient Features:

- Gentle on fabrics.
- Improves fabric quality
- Prevents hairy fabrics
- Bio-Polished fabrics prevent pilling in garments after repeated washes
- Garments made from Bio-Polished fabrics look newer, and last longer
- Environmentally friendly
- Easy and safe to use.
- Allows bio polishing to take place during the dyeing operation.
- Works across a wide pH range 5 – 8.





## Properties:

Appearance	: Pale Yellow Liquid.
Chemical Nature	: A neutral cellulase enzyme
Solubility	: Soluble in cold water.
pH ( 2% Solution )	: 5.0 – 6.0
Stability	: Resist to Hard Water
Storage Stability	: Stable for 3 months (When stored in a cool & dry place)





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### Method of Application:

Processing requirements with **EMCOZYME – CR**

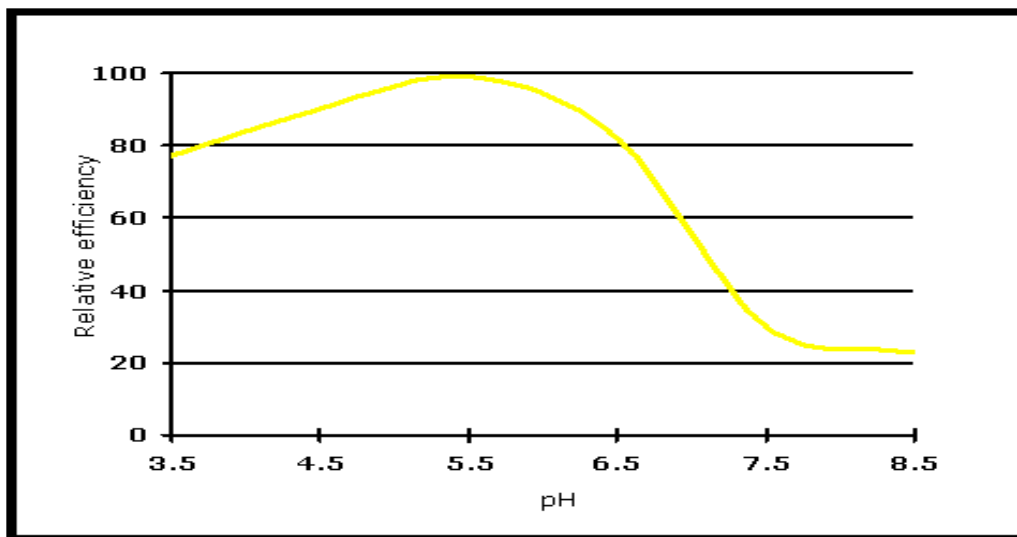


Figure 1 pH profile of **EMCOZYME - CR**

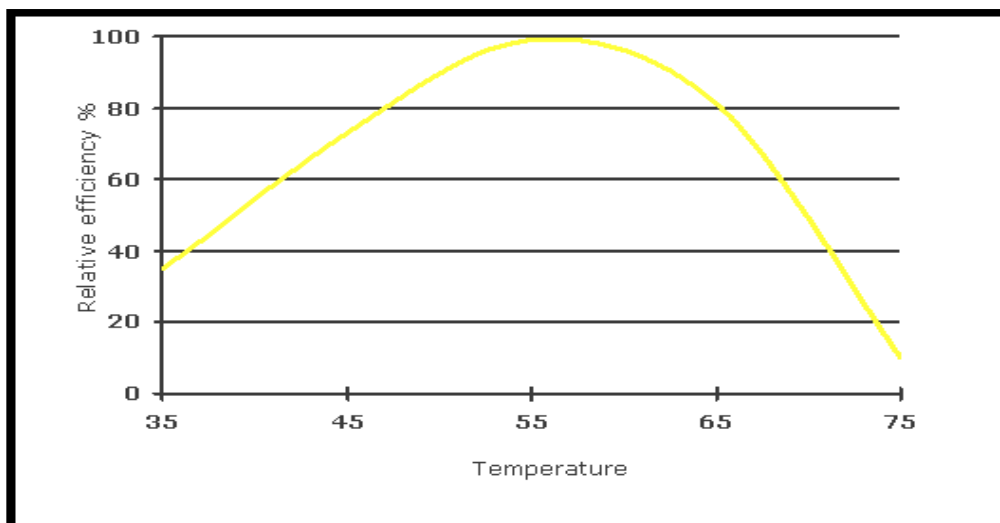


Figure 2 Temperature profile of **EMCOZYME – CR**





## General Process Description

The Bio-Polishing process ensures that the loose fibers on the fabric are dislodged. For optimum results, it is therefore important that equipment with high agitation is used to remove the loose fibers from the fabric. Suitable equipment includes jet dyeing machines, as well as aqueous fabric tumblers.

Product	Temp. (°C)	pH	Application		
			Continuous	CPB	Jet, winch
EMCOZYME - CR	40-55	4.5-5.5	NR	+/-	++

NR -- Not recommended

+/- -- Suitable in certain circumstances

++ -- Very Good





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### General safety instructions:

General safety rules for handling chemicals should be observed in storage, handling and use. The product should not be swallowed. For further information, please consult existing safety data sheet.

#### Note :

The data contained in this communication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with the requirements of the downstream textile market rests with the textile processor.

### Contact Information:

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