

## PERFORMANCE ENZYMES

- ✓ ALFAMYL DHL
- ✓ AQUAENZYM ECON
- ✓ PECTAMYL ECO
- ✓ BIO-PRET FUSION
- ✓ BIO-CHRONAL BCS



SAVE WATER



SAVE ENERGY



LESS COST



SAVE TIME



LESS WASTE  
WATER



ECOLOGICAL



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# HIGH CONCENTRATION ENZYMES

## ● CATALASE ENZYME

Perhidron Ultra CNO Terbinolx Supra 2000

Reaction mechanism: Hydrogen peroxide is broken down to water and oxygen by the enzyme catalase.

$2H_2O_2 \rightarrow 2H_2O + O_2$  The catalase enzyme is only effective against peroxide. It has no effect on fabric and dyestuff.

### **Advantages:**

**Water : 1 kg of fabric needs 19-25 liters of water to rinse.**

**Time: Perhidron Ultra CNO, removes  $H_2O_2$  residues in as little as 10 minutes.**

**Environment:** Hydrogen peroxide breaks down into natural products; oxygen and water do not form sulfate and nitrogen salts like reducing chemicals.

**Process:** It effectively removes hydrogen peroxide and provides a safe dyeing.

## ● CELLULASE ENZYME

Supracell HQ7

Supracell Gold 8

Supracell Max AN

Supracell High Fast Gold

**How to apply Bio-Polishing:**

The Bio-Polish process is applied to textile products in the form of fabrics or garments. It can be applied as a combined or separate process in wet processes. The Bio-Polish process will be sufficient to remove the fiber ends from the fabric. In order to avoid color differences, Bio-Polishing is recommended before dyeing.

## ● VISCOSE ENZYME

Viskocell VBN Conc. is a special Bio-Polish enzyme produced from new microorganisms with new technology. It uses in jet, over-flow, airo 1000, etc. machines for surface smoothness, shine and hair removal in knitted and woven fabrics made of viscose and its blends.

### **Advantages:**

Cleaner, brighter, smoother fabric surface

Less fuzzing – pilling

More draped and soft touch

Looking newer for longer

Excellent handle when used with fabric softeners

More environmental awareness in the textile processing

# BIO-CHRONAL BCS

## ○ APPLICATION

- ✓ One bath in Black, Navy Blue dyeing  
Bio-Chronal BCS + Dyeing
- ✓ Two baths in light, medium, dark shades  
Bio-Chronal BCS + Bleaching  
Dyeing

## ADVANTAGES

- ✓ Energy, water and time saving
- ✓ Auxiliary savings in pretreatment
- ✓ Less waste water
- ✓ Production capacity increase
- ✓ Instead of 5 bath, 1 or 2 bath
- ✓ Dyestuff friendly-ecological
- ✓ In knitted fabrics, soft handle and less waste

# BIO-PRET FUSION

## ● APPLICATION

✓ 3 process in 1 bath

✓ Bio-Pret Fusion + Bio-Polish + Dyeing

✓ 3 processes in 2 baths

Bio-Pret Fusion + Bio-Polish + Bleaching  
Dyeing

## ADVANTAGES

- ✓ Minimum weight loss
- ✓ No damage to fibre
- ✓ Eco friendly
- ✓ Increasing dyeing efficiency
- ✓ Energy, water, time saving and increase in quality and production capacity
- ✓ Provide soft touch to fabric
- ✓ Saving on washing agent, oil remover, sequestrant and auxiliary chemicals

# AMYLASE ENZYME

ALFAMYL DHL

PECTAMYL ECO

AQUAENZYM ECON

## SELECTION OF ENZYME

### IMPORTANT PARAMETERS IN SELECTING ENZYME

- ✓ APPLICATION TEMPERATURE
- ✓ APPLICATION TIME
- ✓ MACHINE TYPE
- ✓ AUXILIARY CHEMICAL (SURFACE ACTIVE AGENT)
- ✓ pH

#### ○ APPLICATION - 1

- ✓ Pectamyl ECO or Aquenzym Econ
- ✓ Bleaching
- ✓ Dyeing

#### ○ APPLICATION - 2

- ✓ 3 Processes – One Bath
- ✓ Pectamyl Eco or Aquenzym Econ + Bleaching + Dyeing

#### ○ APPLICATION - 3

- ✓ 3 Baths – Two Stage
- ✓ Pectamyl Eco or Aquenzym Econ + Bleaching
- ✓ Dyeing

## ADVANTAGES

- ✓ Shorter process time
- ✓ No harm to fabric
- ✓ Application in one step by combining with processes such as Bio-Preparation or Bio-Polish