



PERFORMANCE ENZYMES

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





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HIGH CONCENTRATION ENZYMES

CATALASE ENZYME

Perhidron Ultra CNO Terbinox Supra 2000

Reaction mechanism: Hydrogen peroxide is broken down to water and oxygen by the enzyme catalase. 2H2 O2 →2H2O+O2 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 H2O2 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

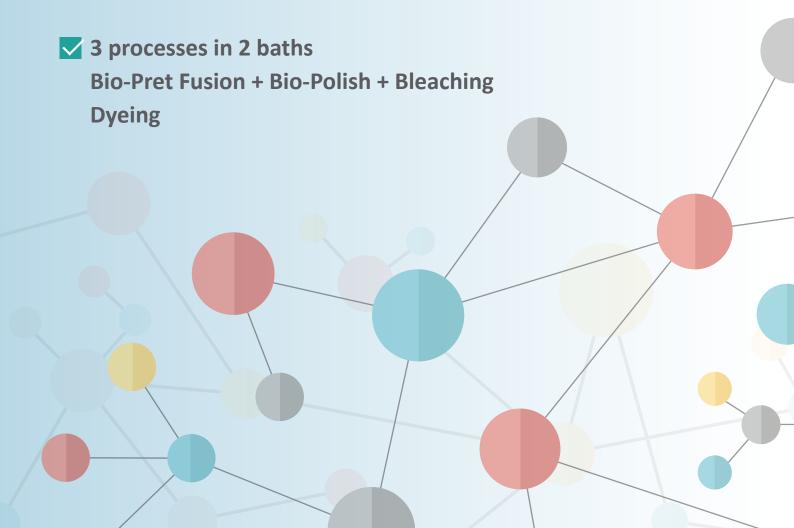
- One bath in Black, Navy Blue dyeing
 Bio-Chronal BCS + Dyeing
- Two baths in light, medium, dark shades
 Bio-Chronal BCS + Bleaching
 Dyeing

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



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
- Pectamly 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