

# ANC ENZYME SOLUTIONS PTE LTD

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## BIO-SOFT ANP4000

*Highly concentrated liquid enzyme*

### Description

Bio-soft ANP4000 is a concentrated liquid enzyme that is used in bio-finishing of cellulosic fabrics.

### Benefits

- High concentrated liquid form means low dosage requirements and easy handling.
- Allows for reduced wash times and less damage to garments.

### Properties

Appearance:	Amber Liquid
Solubility:	Miscible with water
Specific Gravity:	1.1 to 1.2
Odor:	Mild fermentation odor

### Dosage

Enzyme requirements are based on processing conditions. Under optimum conditions 0.5-1.2% Bio-soft ANP4000 on the weight of garments will adequately bio-finish garments in 25-45 minutes.

1. Desize thoroughly with desizing agent, then drain liquor.
2. Fill machine to liquor ratio of 6:1 to 10:1.
3. Add pumice ( if required), heat bath to 50-55°C
4. Adjust pH to 4.5-5.5
5. Add Bio-soft ANP4000 at the rate of 0.5-1.0% o.w.g.
6. Process for 25-45 minutes depending on weight of garment and use of stone.
7. Terminate, drain, rinse and soften.

### Termination

Termination can be achieved by raising the temperature of the bath to 65°C for approximately two minutes.

When high temperature inactivation is undesirable, lowering the pH below the active pH range may inactivate the enzyme.

A combination of pH and temperature adjustments may also be used.

### Effect of Temperature

**Optimum temperature range:** 50-55°C

Effective temperature range: Up to 60°C

### Effect of pH

**Optimum pH range:** pH 4.5-5.5

Effective pH range: pH 4.0-6.5

pH stability: pH 4.0-7.0

### Packaging

Standard package size for Bio-soft ANP4000 is 200 kilogram drums. Alternate custom packaging is available upon request for smaller or larger volumes.

### Handling

Not an irritant, however avoid contact with skin and eyes. Always close drum after opening.

### Storage

In sealed containers, under cool dry conditions, loss of activity is normally less than 10% over one year.