

# ZYTERGE BASE

Finishing

**Zydex**<sup>®</sup>  
Innovating for Sustainability

## DESCRIPTION

ZYTERGE BASE is a specially engineered high molecular weight, non-ionic, water soluble \ polyester polyethylene glycol resin.

## PRODUCT ATTRIBUTES

- The polyester block in ZYTERGE BASE enables anchoring on the polyester substrate to be finished at 140-180° C.
- The polyethylene glycol chain of ZYTERGE BASE allows maintaining of the treated polyester substrate under hydrated condition. This results in improved wicking properties (Hydrophilic finish).
- Better hydrophilicity of the treated polyester substrate with ZYTERGE BASE enables reduced static charge (hydrated condition enables instant dissipation of Static charge) with good retentive effect (10 home laundry washes).
- ZYTERGE BASE works as an effective Soil release agent for 100% polyester & its blends with good retentive effect (10 home laundry washes). The polyethylene glycol chain effectively pushes the oily stain as and when it comes in contact with water.

## TECHNICAL DATA

FORM	
Appearance	White Solid
Solid content	98 ± 2%
Nature	Non-ionic

## SOLUTION MAKING PROCEDURE

### Preparation of 30% solution

Melt & Add to good water (< 500 TDS) & stir under highspeed for 15-20 minutes.

## APPLICATIONS

### Technical Textile Applications:

<b>Hydrophilicity Improvement</b>	100% polyester knits for shoe liner application	Apply Zyterge Base 30% and our silicon softener combination at dosage 25 gpl and 5 gpl respectively to achieve hydrophilicity, antistatic and soil release properties. Drying and curing may be done at more than 110°C for better adsorption of molecules
<b>Hydrophilicity Improvement</b>	100% polyester spun bonded or spunlace bonded non wovens	Zyterge Base 30% in diluted form can be either sprayed and dried in line during the non woven process or off line by padding treatment
<b>Lubricity Improvement</b>	100% polyester dyed needle punched non woven	Zyterge Base 30% at 1 to 3% dosage post dyeing of polyester fiber improves the lubricity, hydrophilicity and antistatic properties which are lost during dyeing process. This helps in better needling in needle punching stage and resin adsorption during resin bonding stage

### Traditional Textile Applications :

<b>Polyester Dyeing</b>	The recommended dosage for dye leveling application for Zyterge Base 30% is 1% owf for disperse / cationic dyeing of polyester fabric Zyterge Base 30% should be exhausted at around 70–80°C for polyester fiber / yarn / fabric for about 10-15 min followed by normal dyeing process.
<b>Acrylic Dyeing</b>	The recommended dosage for dye leveling application for Zyterge Base is 1% owf for cationic dyeing of acrylic fiber / hank. The product should be exhausted at around 60–70°C for acrylic fiber / yarn for about 10-15 min followed by normal dyeing process.
<b>Oligomer Control</b>	Polyester fiber / filament yarn sometimes have oligomers which migrate to the surface during dyeing and result in dyeability problem. Exhaust finish with FSZ 1800 solution prior to disperse dyeing, effectively keeps the released oligomers in suspension form and improves dyeability. The recommended dosage of Zyterge Base is 1 to 1.5% owf.

## FINISHING

Exhaust / pad finish on 100% polyester fabric and blended fabric Zyterge Base 30% at dosage level of 15 –20 gpl or 1.5 – 2.0% at normal weight pick up gives hydrophilicity, antistatic and soil release properties. Zyterge Base is reasonably durable for more than 5 home launderings. The product can be used with other finishing agent for improving the comfort value of polyester fabric. Drying and curing may be done at more than 110°C for better adsorption of the product.

### Notes:

ZYTERGE BASE T 30 should be diluted in water before adding to any bath. Compatibility of chemical bath needs to be checked.

## STORAGE & SHELF LIFE

- Keep the drums of ZYTERGE BASE in a cool shade.
- Do not store in direct sun or at a temperature higher than 40 °C.
- Minimum shelf life is 12 months.

### DISCLAIMER:

The information & data contained herein are given in good faith but without warranty. We recommend that before using our products, the customer should make his/her own tests to determine the suitability of the products for his/her own purpose under his/her operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers.