

ZYTERGE BASE PW

Denim Washing

Zydex[®]
Innovating for Sustainability

DESCRIPTION

ZYTERGE BASE PW is a proprietary blend of high molecular weight polymeric surfactant along with low molecular weight non-ionic surfactants for effective cleaning, suspension without re-deposition of indigo dyes and size particles during denim garment washing

PRODUCT ATTRIBUTES

- ZYTERGE BASE PW effectively micro cleans and suspends the un-reacted Indigo dyes/ Sulphur dyes/ starch/ size particles released during enzyme washing of denim garments.
- ZYTERGE BASE PW has been engineered with surfactants to work with Cellulase and Amylase types of enzymes at pH 4.5–7.5 and up to 60 °C washing which gives best of the result.
- Unique block structure of ZYTERGE BASE PW results into large bowl type action post cleaning. This allows ZYTERGE BASE PW to encapsulate the suspended dye and size particles (even in hard water washing conditions) and ensures excellent anti re-deposition property even at low liquor ratio 1:3.
- ZYTERGE BASE PW effectively prevents back staining of dyes on the garment (improved washed look) and on pocket fabric (improved whiteness of polyester/Cotton blend and Cotton) thereby giving better appeal to the garment.
- ZYTERGE BASE PW improves the overall quality of the washed garment in terms of fullness, wet / dry rub, feel, dimensional stability, retain the stretch by Lycra, etc.
- ZYTERGE BASE PW has good compatibility with all types of enzymes and low foaming tendency which helps in high speed washing condition.
- ZYTERGE BASE PW by assuring better cleaning and re-deposition of un-reacted indigo ensures lower yellowing tendency of the denim garments due to ozone effect.

TECHNICAL DATA

FORM	
Color	Pale White
Physical Form	Solid at 30°C
Solid content	98 ± 2%
Nature	Mildly Anionic

SOLUTION MAKING PROCEDURE

Preparation of 20% solution

The product ZYTERGE BASE PW is also available in 20%, 30%, 50% and 75% ready to use form. For making 20% solid product, take ZYTERGE BASE PW 20 parts and water 80 parts. Following procedure may be followed:

- Take ZYTERGE BASE PW in a vessel and heat it up to 90-100 °C using either by electric heater /gas burner /oil bath /water bath.
- In other vessel take water (less than 250 ppm hardness) and keep it under stirring condition.
- To the above water under stirring, add molten ZYTERGE BASE PW slowly.
- Keep it under stirring till solution becomes homogenous.
- Cool it down to room temperature and 20% solution is ready to use.

One can put HMHDPE barrel/ carboy in hot water and then decant the solid product after slight melting. Alternatively, around the belly of the MS/ HMHDPE barrel one can put a thermal heating belt for melting the product and also decant into hot water.

APPLICATION PROCEDURE

FORM	
Cellulase / Amylase Enzyme	Recommended by Enzyme manufacturer
MLR	1:3 to 1:8
pH	Maintain 4.5 to 7.5 (Depend on Enzyme)
Temperature	40 - 60 °C (Depend on Enzyme)
ZYTERGE BASE PW (20%)	0.7 – 1.5 % o.w.g.
Time	30 - 60 minutes (Depend on Enzyme)

Deactivate the enzyme at 70°C for 10 minute in water wash.

STORAGE & SHELF LIFE

- At temperature above 40°C, ZYTERGE BASE PW has sticking tendency.
- Keep drums of ZYTERGE BASE PW in a cool shade.
- Do not store in direct sunlight 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.