

ProAvita™ ProExcel DBC

ProAvita ProExcel DBC boosts the enzymatic desizing and peroxide bleaching of cellulose and its blends. Using this novel, non-toxic and biodegradable ProAvita ProExcel DBC results in significantly higher TEGEWA and better bleaching. It helps reduce BOD, COD and TDS loads in the effluent. ProAvita ProExcel DBC is Oeko-Tex (Class-I), GOTS 5.0 & REACH compliant and ZDHC Gateway Registered.

The product is in compliance with GOTS 5.0, ZDHC Gateway, OEKO-TEX / ECO PASSPORT/REACH certifications.

Product Specifications

Physical Form	Liquid
Colour	Light Brown to Dark Brown
Ionic Character	Anionic - Amphoteric in nature when applied
Operating pH	2.5 to 14
Operating Temperature	1° C to 140° C
Effective Substance	A consortium of bio chemicals derived from probiotics
Electrolyte Stability	Stability to electrolytes used in Textile processing
pH	2.5 < V < 3.5
Biodegradability	100%
Storage	Store at room temperature, do not freeze, keep lid closed, avoid direct sunlight.
Packaging	Packed in 50 Kg barrel.

Advantages

Features	Benefits
Pre-treatment Booster	<ul style="list-style-type: none"> • Improves the TEGAWA • Boosts enzyme activity for the selective degradation of starch sizes • Compatible with enzymatic desizing agents (amylases) • Suitable for exhaust and continuous pad-steam processes
Low Foaming	<ul style="list-style-type: none"> • Low Foaming, trouble-free running without addition of defoamer
100% Biodegradable	<ul style="list-style-type: none"> • Reduces load on E.T.P up to 30% • Nontoxic to aquatic organism
Process, Chemicals and Energy Saving	<ul style="list-style-type: none"> • ProExcel DBC can be used in demineralization, which saves one bath in pre-treatment process

Application Dosage

ProExcel DBC is applied at the rate of 0.60% of substrate weight just before scouring / bleaching operation.

Enzymatic Cracking on cellulosic fibers and their blends with synthetics, if size contains starch

Step-1 Exhaust Enzymatic Cracking (Exhaust Process)

0.5-1.0 gpl DESIZING ENZYME

0.2-0.6 gpl ProAvita ProExcel DBC

0.3-0.5 gpl WETTING AGENT

Step-2 Pad Batch Enzymatic Cracking (Pad Batch EC)

2-6 ml/kg DESIZING ENZYME

1-3 ml/kg ProAvita ProExcel DBC

3-5 ml/kg WETTING AGENT

Liquor pick-up 100%

Impregnation: (Temperature – As recommended for Desizing enzyme)

Batching time 4-24 h

Hot washing-off

Step-3 Pad Steam Enzymatic Cracking (Pad Steam EC)

2-6 ml/kg DESIZING ENZYME

1-3 ml/kg ProAvita ProExcel DBC

3-5 ml/kg WETTING AGENT

Liquor pick-up 100%

Impregnation: (Temperature – As recommended for Desizing enzyme)

Steaming at 100°C with saturated steam as per recommended time

Hot washing-off

Step-4 Surfactant Cracking on cellulosic, synthetics and their blends, if size does not contain any starch

1-5 gpl WETTING AGENT

1-3 gpl ProAvita ProExcel DBC

x g/l Soda ash or caustic soda

High recipe concentrations for applications in short-time washing machines and in cold pad batch.

Temperature:

60-90°C for PA fibers

80-90°C for PES fibers

85-98°C for CO fibers

For Peroxide Bleaching

Exhaust: 0.2 -0.8 gpl

Continuous: 2 – 5 ml/kg

Safety and Handling

Nontoxic, does not require any protective equipment when handling. Rinse with water if product comes into contact with eyes.

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Disclaimer

ProAvita is a registered trademark of Proklean Technologies Pvt Ltd. The information and recommendations contained herein, are based on our product experience and process understanding. Minor variation in colour could occur due to organic nature of the raw material used. Customers are encouraged to conduct their own trials with their own recipe to validate results and to read safety data sheet before using the product.