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ROCKSOFT™ BioNCE

Product #176

(For considerations in **Biofinishing** Applications)

I. INTRODUCTION:

ROCKSOFT™ BioNCE is a liquid cellulase enzyme that can effectively be used for biofinishing of cellulosic fabrics at neutral pH. **ROCKSOFT™ BioNCE** is designed for use in biofinishing of all cellulosic fabrics including, but not limited to, cotton, rayon, linen, flax, ramie, and Tencel®.

II. PHYSICAL PROPERTIES:

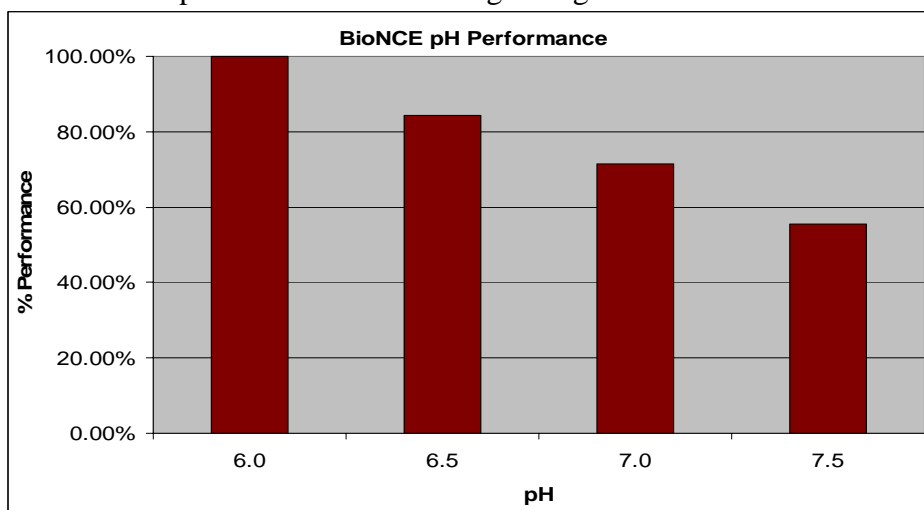
Appearance: Medium to dark amber liquid (Note that color does not affect or reflect activity.)
 Odor: Slight fermentation odor
 pH (as is): 4.5 – 4.9
 Density: 1.20 – 1.30
 Activity: ≥ 55,000 NTU/g

Activity is based on an internal standard and should not be used to compare to other products with different activity units or products with different enzyme components with the same activity units. The activity reported with each lot should only be used to confirm consistency from lot to lot.

III. PRODUCT CAPABILITIES:

When run as directed in this bulletin, **ROCKSOFT™ BioNCE** can be utilized to accomplish the following:

1. Reduce the fuzz and pilling, soften and smooth the hand, and increase the gloss/luster and yield a fuller, deeper color by the biofinishing of garments before or during the garment dyeing cycle.
2. Biofinishing may be performed in either semi-continuous or batch process.
3. Can be run at pH 6.0 to 7.5 minimizing strength loss and color loss.



IV. PROCESSING CONDITIONS: GENERAL:

ROCKSOFT™ BioNCE will function from a pH of 6.0 to 7.5. **ROCKSOFT™ BioNCE** will function from 40°C – 60°C (104°F – 140°F) with 60°C (140°F) as an optimum.

V. RECOMMENDATIONS FOR USAGE:

Biofinishing/Fuzz Removal:

Liquor to goods ratio: 8:1-15:1, pH: 6.0 – 7.5

Temperature: 40°C – 60°C (104°F – 140°F)

Dosage: 0.25 – 2.0% owg (use at pH 7.5 may need increasing dosage up to twice versus pH 6.0)

Time: 30 – 45 minutes depending on desired effect

Process Control:

Biofinishing is normally controlled by monitoring the weight loss of the fabric. A weight loss of 3–5% usually reflects a good biofinishing effect without excessive loss of fabric strength.

Higher temperatures, closer to 60°C, are more effective than lower temperatures, but lower temperatures may still give an acceptable biofinishing effect.

VI. STORAGE CONDITIONS/ACTIVITY:

ROCKSOFT™ BioNCE retains more than 90% activity after four months when stored at 25°C (77°F) out of direct sunlight and in the original, closed container. **ROCKSOFT™ BioNCE** also retains more than 90% activity after 1 month when stored at 38°C (100°F). Do not let freeze.

VII. INACTIVATION:

ROCKSOFT™ BioNCE can be inactivated by raising the pH above 11 or temperature above 71°C (160°F) or a combination of the two. After the desired effect has been achieved, we recommend inactivating **ROCKSOFT™ BioNCE** within the next operating bath.

VIII. PACKAGING:

ROCKSOFT™ BioNCE is packaged in 240 kg polyethylene drums.

IX. TECHNICAL SERVICE:

Information covering specific applications for this product is available from your Dyadic International (USA) sales/technical representative. We will work with you to enhance processes and solve problems, in addition to assisting you in achieving the end result/look desired. Call your sales/technical representative for any questions, comments, or help that you need!

Nothing disclosed is to be construed as a recommendation to use our products in violation of any patents. The information presented is believed to be accurate. However, said information and products are offered without warranty or guarantee, except as to the composition and purity stated herein since the ultimate conditions of use and variability of the materials treated is beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. The goods described herein are sold as is and with all faults. The seller specifically disclaims all warranties in connection with the sale of the goods, both express and implied, including, without limitation, the warranties of merchantability and fitness for any particular purpose, as those terms are defined in the Uniform Commercial Code of Florida. The seller shall not be liable for any incidental or consequential damages whatsoever.

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