

## Product Information Laundry Auxiliaries

### Lava<sup>®</sup> Cell BNG

**Function** Cellulase enzyme for biopolishing and permanent antipilling effect, improvement in the handle of fabrics made of cellulosic fibers, suitable for defibrillation of Lyocell fibers.

- Properties**
- decreases fuzz and pilling of cellulosic fibers
  - durable softness, smoothness without loss of water absorbency
  - removes fiber fibrils from Lyocell after fibrillation treatment
  - gives a soft, elegant handle
  - improvement of color brightness and intensity
  - favorable ecological profile finish

**Chemical Characteristics** Enzyme preparation on cellulase basis

**Technical Data**

Appearance:	yellow to red brown liquid
Dilution procedure:	dilute with warm and cold water dissolve in cold water
pH:	4 – 6
Shelf life:	12 months in closed original containers

**Do not store product above +25°C, product can become useless.**

**Store product cool but not below +3°C**

## Application

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Lava Cell BNG is a special enzyme which acts on the surface of cellulosic fibers. It weakens the micro fibrils on the surface of the fiber and gives fabrics a softer, more elegant handle. The effect is permanent and reduces hairiness and pilling of many fabrics.

Treatment can be performed at any stage but the best results are obtained after desizing, bleaching, washing or dyeing.

The product should be applied on units with strong mechanical action such as jets, overflow dyeing machines or drum washing machines. Alternatively, mechanical treatment can be performed after treatment with Lava Cell BNG in a tumble drier.

Typical recipe:

0.4 – 1,6	%	o.w.g. Lava Cell BNG
0.5	%	sodium acetate
0.5	%	acetic acid 60%

A pH of 4.5 - 5 is normally set automatically. If necessary, it can be adjusted with acetic acid.

Liquor ratio 5:1 to 10:1, depending on type of machine  
Treatment time: 10 - 45 min / 55 - 60°C

Enzyme activity should be stopped after treatment by adding alkali (soda or caustic soda) to set the pH at above 9 or by alkaline post scouring over pH 9 or by setting the temperature over 75-80°C.

The other dyeing, bleaching and finishing treatments are not influenced by treatment with Lava Cell BNG. The handle can be improved by applying common softeners, especially silicone softeners.

Treating cellulosic fibers with Lava Cell BNG reduces tensile strength. If the weight loss is 3 - 5%, the reduction in tensile strength is usually 10 - 20%. Particular attention must be paid to the reduction in tensile strength when treating bast fibers. Pre-trials should always be carried out to check tensile strength before treating new fabrics.

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DyStar Kimya Sanayi ve Ticaret Ltd. Sti  
Mecidiye Mah.Cenap Sahabettin Sok.No:24  
34718, Kosuyolu / Kadikoy  
Istanbul - Turkey  
Telephone +90 216 544 15 00  
Fax(sales) +90 216 339 90 48  
Fax (marketing) +90 216 339 90 63  
[DyStar.Auxiliaries@DyStar.com](mailto:DyStar.Auxiliaries@DyStar.com)  
[www.DyStar.com](http://www.DyStar.com)

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