

## Product Information Laundry Auxiliaries

# Lava<sup>®</sup> Cell NAS Extra

---

<b>Function</b>	Multifunctional enzyme solution
<b>Properties</b>	<ul style="list-style-type: none"> <li>- product ensures excellent denim abrasion with built-in preparation</li> <li>- combined desizing and stone washing enzyme</li> <li>- high color contrast finish, high color pull and a low degree of indigo back staining</li> <li>- product saves time, energy and water</li> <li>- lower environmental impact in effluent</li> <li>- flexible temperature profiles (40 - 55°C)</li> </ul>
<b>Chemical Characteristics</b>	Cellulase enzyme preparation with special additives

---

<b>Technical Data</b>	<table border="0"> <tr> <td>Appearance:</td> <td>beige powder</td> </tr> <tr> <td>pH (1%):</td> <td>4 - 5</td> </tr> <tr> <td>Dilution procedure:</td> <td>dilute with warm and cold water dissolve in cold water</td> </tr> <tr> <td>Shelf life:</td> <td>12 months in closed original containers</td> </tr> </table> <p style="text-align: right;"><b>Protect against humidity</b></p>	Appearance:	beige powder	pH (1%):	4 - 5	Dilution procedure:	dilute with warm and cold water dissolve in cold water	Shelf life:	12 months in closed original containers
Appearance:	beige powder								
pH (1%):	4 - 5								
Dilution procedure:	dilute with warm and cold water dissolve in cold water								
Shelf life:	12 months in closed original containers								

---

## Application

Add 0.5 - 1% Lava Cell NAS Extra on weight of goods to washing liquors to speed up the removal of Indigo. The liquor ratio should be 5:1 - 10:1 and the treatment temperature should be 40 - 55 °C. In order to achieve best results, the pH value should be 6.5 - 7.5 which normally is adjusted by its own.

### Special Advantages

- high contrast between warp and weft yarns
- reduce consumption of water, energy and chemical
- minimal soiling of pocket linings can be applied at low temperatures

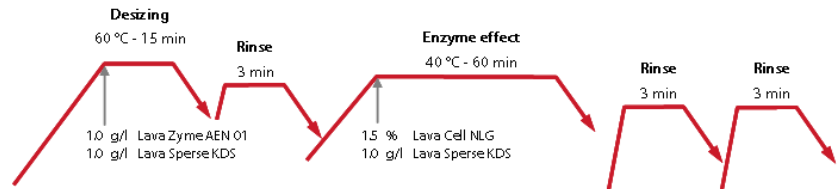
### Treatment

0.5 - 1 % o.w.g. Lava Cell NAS Extra  
0.5 - 1.0 g/l Lava Sperse KDS

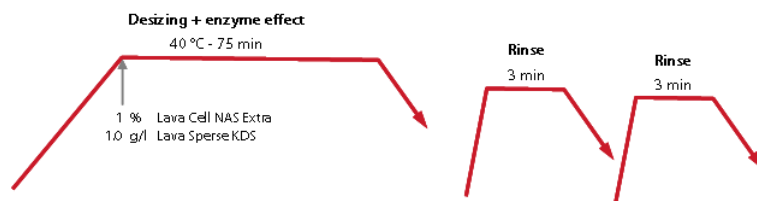
Rotate with or without stones at 40 - 55 °C depending on the quality of the denim.

With stones: approx. 20 - 60 min  
Without stones: approx. 30 - 90 min

### Conventional process



### Combined enzyme process



### Sample calculation with Lava Cell NAS Extra - Sustainable process

Step 1 - desizing		One Step Wash	input	normal	sustainable
Garment amount	50 kg	Garment 50 kg Water 300 l Time 60 min Temperature 40 degree Dispersing agent 300 g Lava Cell NAS Extra 200 g	water	900 l	300 l
Water	300 kg		time	75 min	70 min
Time	10 min		auxiliaries	1200 g	600 g
Temperature	60 degree		<b>Savings</b>		
Amylase enzyme	300 g		12.0 l/kg water		
Dispersing agent	300 g		12.0 g/kg auxiliaries		
<b>Step 2 - Rinse</b>			less energy and time		
Water	300 kg		sustainable needs best available technology and expertise and DyStar is this expertise		
Time	5 min				
<b>Step 3 -Stone wash</b>					
Water	300 kg				
Time	60 min				
Temperature	40 degree				
Stone enzyme	300 g				
Dispersing agent	300 g				
Stone	50 kg				

**DyStar Kimya Sanayi ve Ticaret Ltd. Sti**  
**Mecidiye Mah.Cenap Sahabettin Sok. No: 24**  
**34718 Kosuyolu / Kadikoy**  
**Istanbul - Turkey**  
**Phone +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)

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery.