

## Product Information Laundry Auxiliaries

# Lava<sup>®</sup> Zyme Lite 1540

### Indigo bleaching enzyme

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**Function** Laccase enzyme for indigo denim bleaching

- Properties**
- Enzymatic bleaching which doesn't contain chloride or sulfide
  - Provides even bleaching effect on indigo dyed jeans fabric
  - It gives very good color contrast
  - Supplied as powder form
  - Worked in every type of laundry machine, without any foam

**Chemical Characteristic** Laccase based enzyme prepartate

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**Technical Data**

Apperance:	Beige to grey powder with black particules
pH:	3 – 4
Shelf Life:	6 months in original closed containers

**Protect against humidity**

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## Application

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Lava Zyme Lite 1540 gives bleaching effect on indigo dyed jeans.

This bleaching process is performed after desizing and stone washing processes. Bleaching effect can be control by process time, temperature and application amount.

In order to get a good bleaching effect, it is necessary to have enough air in the laundry machine. Because oxygen in the air has a part in the bleaching process. This application is appropriate for rotary dyeing machine. Horizontal dyeing machines does not have enough space for air therefore the effect will be diminished.

pH 4 – 5,5 which is necessary for the bleaching does not affect the leather labels and metal parts

Lava Zyme Lite 1540 can only be used for Indigo dyed fabric, it can not be useful for sulfur and reactive dyestuff.

It gives more grey cast compare to other (especially hypochloride) bleaching systems. If more shiny and brillent color shade required, after enzyme application additional peroxide application can be performed.

### Guideline Recipe

Size on denim (jeans) is removed, cellulase is applied with stone or w/o stone and rinse is applied. Laundry machine is filled with 50 – 70°C water.

Liquor Ratio 1:5 – 1:10

pH: 4 – 5.5

pH of the bath will be adjusted with the buffer system present in the product. However, it should be checked, if needed pH can be adjusted with acetic acid. Above pH 6, the bleaching effect will be reduced.

% 1 – 3           Lava Zyme Lite 1540

15 – 30 min   applied at 65 – 70°C.

It is advice to perform a rinse washing after the bleaching.

0.5 – 1 g/l   Lava Sperse BASE or  
0.5 – 1 g/l   Lava Sperse KDS

At 30 – 40°C 10 min rinse

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**Only for weft yarn cleaning**

% 0.5 Lava Zyme Lite 1540 washing will be enough

Repeating bleaching processes with fresh liquor gives better bleaching effect than increasing amount of Lava Zyme Lite 1540 during the process.

After bleaching, as a softener

% 3 Lava Jeans PRO 01 can be advised.

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