

KATAMIN BW 3.0

**Wet paraffinating agent for cotton and linen yarns and mixtures
with synthetic fibres; finishing agent for cotton yarn and knitwear**

Chemical composition

combination of polyethylene, paraffin and emulsifiers

Characteristics

Appearance:	white emulsion
Ionicity:	cationic/non-ionic
Solubility / Emulsifiability:	readily miscible with cold water in all proportions
pH-value original:	3.5 – 4.0
Resistance:	compatible with non-ionic and cationic substances; resistant to organic acids and alkalis in usual concentrations as well as to hard water
Storage:	at least 12 months if properly stored
Stability to frost:	sensitive to frost – do not store below 2°C

Application properties

- imparts excellent surface smoothness
- excellent reduction of thread-to-metal and thread-to-thread friction
- even distribution of the product over the whole thread surface and the entire bobbin
- nearly complete bath exhaustion already at low temperature
- very good unwinding behaviour of the yarn during subsequent processing
- retains hydrophilic nature of cotton
- improves stitch ability of knitted goods
- optimal antistatic properties
- no rewinding operation necessary in contrast to the application of hard paraffin
- no yellowing nor resinifying even at higher drying temperatures
- free of silicone
- GOTS 5.0 approved additive
- bluesign® approved
- KATAMIN BW 3.0 is part of our Eco logic! range.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.

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Application fields

KATAMIN BW 3.0 is a wet paraffinating agent for yarns from cotton, linen, acrylic and mixtures with other fibres. In most cases, the application of hard paraffin which requires extra rewinding is not necessary.

Further, KATAMIN BW 3.0 is applied to cotton knitwear by exhaust process. It improves the stitchability properties and imparts a pleasant fabric touch. Stitch breaking during ready-to-wear manufacturing is prevented.

KATAMIN BW 3.0 is successfully used for conditioning of linen tops in backwashing.

Guidelines for application

KATAMIN BW 3.0 is applied immediately after the dyeing or bleaching process in a fresh bath. The following recipes are well-tried during practical application:

- **Wet paraffinating of yarns:**

1.5 – 3.0% KATAMIN BW 3.0 (on weight of goods)

Working procedure:

- prepare water in the vessel, pH 4.5 – 5.0 (adjust with acetic acid)
- add KATAMIN BW 3.0,
- run cold for 5 min, check pH and readjust if necessary,
- heat up to 40 - 45°C, gradient 1°/min
- run for 10 min 40 – 45°C
- drainage of bath, dehydrating, drying
- alternating liquor circulation (begin 6 min outside ==> inside, 4 min inside ==> outside)

The isothermal process is recommended for suitable cotton qualities.

- prepare water in the vessel, pH 4.5 – 5.0 (adjust with acetic acid)
- add KATAMIN BW 3.0,
- run for 5 min, check pH and readjust if necessary,
- run for 20 min 30°C
- alternating liquor circulation (begin 6 min outside ==> inside, 4 min inside ==> outside)

It is possible to apply non-ionic or cationic softeners (e.g. CEFASOFT NI, ADULCINOL FT, ADULCINOL BUN) in the same bath for improving the fabric touch. The bobbins conditioned with KATAMIN BW 3.0 can be dried by all common drying processes.

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- **Cationic after-treatment and wet paraffinating of yarns (one-bath process):**

In case of cationic after-treatment of the cotton, wet paraffinating can be performed simultaneously in one process. This way, better conditioning results are often achieved on cellulosic materials in contrast to a two-bath treatment where paraffinating is done in a fresh bath after cationic after-treatment. The one-bath after-treatment and wet paraffinating does not affect the fastness properties of the reactive dyes.

Amount of use:

1.5 – 3.0% KATAMIN BW 3.0 (on weight of goods)

Working procedure:

- prepare water in the vessel, pH 4.5 – 5.0 (adjust with acetic acid)
- add KATAMIN BW 3.0,
- run cold for 5 min, check pH and readjust if necessary,
- heat up to 40 - 45°C, gradient 1°/min
- run for 10 min 40 – 45°C
- add product for cationic after-treatment, 5 min linear dosing (e.g. 2% ZETESAL 2000)
- run for 10 min 40 – 45°C
- drainage of bath, dehydrating, drying
- alternating liquor circulation (begin 6 min outside ==> inside, 4 min inside ==> outside)

- **Conditioning of knitted goods by exhaust method:**

1.0 – 3.0% KATAMIN BW 3.0 (on weight of goods)
pH 4.0 – 5.0 (acetic acid)
40 – 50°C 20 minutes

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