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BASF SE

# Kieralon® Wash XC-J Conc.

**Low-foaming detergent and wetting agent for use in textile exhaustion pretreatment processes on cellulosics, synthetic fibre and their blends**

<b>Nature</b>	Mixture of non-ionic surfactants (APEO free and phosphorus-free)
<b>Physical form</b>	colorless or slightly yellowish, clear liquid.
<b>Shelf life</b>	Kieralon® Wash XC-J Conc. can be kept in the original sealed containers at temperatures between 0 C and 35 C for at least 12 months.  Once container has been opened, the content should be used up quickly. Containers should be closed tightly after use.

### Properties

<b>Density</b>	Approx. 0.99 g/cm <sup>3</sup> at 20°C
<b>Solubility</b>	Kierlaon® Wash XC-J Conc. can be stirred directly into the process liquor.
<b>pH</b>	Approx.6-7 ( 100 g/l in water)
<b>Viscosity</b>	Approx. 65 mPa.s (Brookfield RVT, 23°C, SP3, 50 rpm)
<b>Stability</b>	Resistant up to 30 g/l NaOH 100% at room temperature.
<b>Action</b>	Low-foaming wetting agent and detergent with emulsifying and detergency action for removing cotton impurities and oils.  The values given are approximate. Tolerances are given in the product specification.
<b>Characteristics</b>	Very good wetting, detergency and emulsifying power  Extremely effective to wash synthetics and blends to remove oil and its impurities  Neutral pH and nonionic  Low foaming, does not contain antifoams
<b>Benefits</b>	Rapid wet out of hydrophobic fabric for trouble-free loading and running of the goods  Removes oily and greasy impurities as well as soluble sizing and soil particles. Results in a good absorbency  Increases safety and reproducibility for subsequent processing stages  Very good compatibility with enzymes  High stability of product and application liquors. No risk of separation in machines with vigorous liquor circulation. Low foaming throughout processing

### Application

<b>Action</b>	Kieralon® Wash XC-J Conc. performs well in all washing processes in which the liquor is subjected to strong turbulence. Because of its high
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performance, only very small amounts of Kieralon® Wash XC-J Conc. need to be used.

- Prescouring, boiling-off and bleaching in a long liquor
- Soaping off after dyeing

### Suggested recipes

#### 1. Boiling-off cotton knitgoods in jet dyeing machines

0.5 - 1 %	Kieralon® Wash XC-J Conc.
1 - 3 %	NaOH, 100%
1 - 2.5 %	Lufibrol® Extract MSD

Liquor ration 7:1 – 10:1  
Treatment time: 20 – 30 min  
Treatment temperature 90 - 100°C

#### 2. Bleaching cotton knitgoods in jet dyeing machines

0.5 - 1 %	Kieralon® Wash XC-J Conc.
2 - 4 %	H <sub>2</sub> O <sub>2</sub> , 50%
1 %	NaOH, 100%
1 %	Prestogen® Stabilizer F-PL

Liquor ration 7:1 – 10:1  
Treatment time: 40 – 60 min  
Treatment temperature 90 - 100°C

#### 3. Bleaching cotton knitgoods in jet dyeing machines with pre-extraction

##### *Pre-extraction:*

0.5 - 1 %	Kieralon® Wash XC-J Conc.
0.5 - 1 %	Lufibrol® Extract MSD

Liquor ration 7:1 – 10:1  
Treatment time: 10 – 15 min  
Treatment temperature 40 - 60°C, then directly added

##### **Peroxide bleaching:**

2 - 4 %	H <sub>2</sub> O <sub>2</sub> , 50%
1 %	NaOH, 100%
1 %	Prestogen® Stabilizer F-PL

Treatment time: 40 – 60 min  
Treatment temperature 90 - 100°C

#### 4. Washing PES and PA knitgoods in jet dyeing machines

0.3 - 1 %	Kieralon® Wash XC-J Conc.
0.5 - 2 %	Soda ash (depending on the extent of soiling)
0.5 - 1 %	Lufibrol® Extract MSD (in case of high water hardness)

Liquor ration 7:1 – 10:1  
Treatment time: 20 – 30 min  
Treatment temperature 90 - 100°C

#### 5. Washing polyester-cotton knitgoods in jet dyeing machines

0.3 - 1 %	Kieralon® Wash XC-J Conc.
1 %	NaOH 100% or
1 - 2 %	Soda ash
1 - 2 %	Lufibrol® Extract MSD

Liquor ration 7:1 – 10:1

Treatment time: 20 – 30 min  
Treatment temperature 90 - 98°C

**6. Washing polyester-wool knitgoods in jet dyeing machines**

0.3 - 1 % Kieralon® Wash XC-J Conc.

at PH 8 - 9 with ammonia or soda ash

Liquor ration 7:1 - 10:1  
Treatment time: 20 -30 min  
Treatment temperature 40 - 50°C

**7. Soaping off after dyeing**

Dyed fabric can be soaped off with

0.2 - 0.5 % Kieralon® Wash XC-J Conc.

under conditions appropriate to the type of dye involved.

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### **Safety**

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

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### **Note**

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, pro-portions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with the requirements of the downstream textile market rests with the textile processor.

**Date: June 2011**

