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BASF SE

# Kieralon<sup>®</sup> Wash F-MFB

**Multi-functional, low foaming detergent and wetting agent, APEO-free, with emulsifying and extractive action. Ideal for use in spandex containing fabrics both in continuous and discontinuous pretreatment processes.**

<b>Nature</b>	APEO-free mixture of sequestrents and surfactants (Silicone-free)
<b>Physical form</b>	Yellowish clear liquid
<b>Shelf life</b>	Kieralon® Wash F-MFB can be kept in the original sealed container at temperatures between 0 and 40 °C for at least 12 months. Partly used containers should be kept tightly sealed and used up as soon as possible.  Further information on storage is provided in the current Safety Data Sheet.

## Properties

<b>Product Specification</b>	The data mentioned below are approximate. Tolerances are given in the product specification C
<b>pH</b>	Approx. 1.5 – 2.0 (10gpl in water)
<b>Viscosity</b>	Approx. 120cps (Brookfield spindle3) at 23°C
<b>Density</b>	Approx. 1.017 g/cm <sup>3</sup>
<b>Stability to alkalis</b>	Kieralon® Wash F-MFB forms homogeneous mixtures with alkalis at concentrations of up to 150g/l NaOH 100% at room temperature. The bath needs to be stirred at alkali concentrations higher than 50g/l NaOH 100% and/or at higher temperatures in order to maintain its stability and homogeneity  The above figures are approximate. Tolerances are given in the product specification.

## Application

<b>Action</b>	Kieralon® Wash F-MFB is a multi-functional, low foaming detergent and wetting agent, APEO free, with emulsifying and extractive action for use in pretreatment of cellulose and cellulose blends with synthetic or spandex	
<b>Alkaline boil-off, cotton</b>	Liquor ratio	10: 1
	Kieralon® Wash F-MFB	0.5 – 1.0 g/l
	NaOH 100 %	2.0 – 5.0 g/l
	Lufibrol® Extract MSD	0.5 – 1.0 g/l
	Temperature	95 °C
	Time	30 – 45 min
<b>Bleaching for dyeing, cotton</b>	Liquor ratio	10 : 1
	Kieralon® Wash F-MFB	0.5 – 1.0 g/l
	NaOH 100 %	1.5 – 2.5 g/l
	H <sub>2</sub> O <sub>2</sub> 50 %	2.0 – 5.0 ml/l
	Lufibrol® Extract MSD	0.5 – 1.0 g/l
	Prestogen® Stabilizer F-PL	0.3 – 0.8 g/l

	Temperature	95 – 110 °C
	Time	30 – 45 min
<b>Bleaching for full white, cotton</b>	Liquor ratio	10 : 1
	Kieralon® Wash F-MFB	0.5 – 1.0 g/l
	NaOH 100 %	2.0 – 3.0 g/l
	H <sub>2</sub> O <sub>2</sub> 50 %	4.0 – 6.0 ml/l
	Lufibrol® Extract MSD	0.5 – 1.0 g/l
	Prestogen® Stabilizer F-PL	0.6 – 1.0 g/l
	Temperature	95 – 110 °C
	Time	30 – 45 min
<b>Continuous Washing</b>	Kieralon® Wash F-MFB	1– 3 ml/l
	Soda ash	0.25 – 2 g/l
	Temperature	70 – 95 °C
<b>Desizing</b>	Kieralon Desize FR-HP	3 – 5 g/l
	Kieralon® Wash F-MFB	2 –5 ml/l
	Kieralon® Wet FR -M	1 ml/l
	(The pH of the float must be adjusted to 6 – 7 before the enzyme is applied.)	
	Impregnation temp	60 – 70 °C
	Liquor pick-up	approx. 100% for CO approx. 70 % for PES/CO
	Reaction time	approx. 4 – 6 hours
<b>Boiling-off</b>	NaOH 100%	30 – 50 g/l
	Kieralon® Wash F-MFB	3 – 5 ml/l
	Impregnation temp	RT
	Liquor pick-up	approx. 100% for CO approx. 70 % for PES/CO
	Steaming temperature	approx. 100 °C
	Steaming time	15 – 20 min. (e. g., combination steamer, U-box).
<b>Oxidative desizing / Boiling off</b>	NaOH 100%	30 – 50 g/l
	Sodium persulphate	2 – 3 g/l
	Kieralon® Wash F-MFB	3 – 6 ml/l
	Impregnation temp	RT
	Liquor pick-up	approx. 100% for CO approx. 70 % for PES/CO
	Steaming temperature	approx. 100 °C
	Steaming time	5 – 20 min. (e. g., combination

steamer,U-box)

**Bleaching with Hydrogen peroxide****1. For bleaching fabrics that have been desized and given an alkaline pretreatment**

Hydrogen peroxide, 35%	20 – 50 ml/l
NaOH, 100 %	4 – 5 g/l
Prestogen® Stabilizer F-PL	8 – 12 ml/l
Kieralon® Wash F-MFB	2 – 4 ml/l
Impregnation temp	RT
Liquor pick-up	approx. 100% for CO approx. 70 % for PES/CO
Steaming temperature	approx. 100 °C
Steaming time	15 – 20 min. (e. g., combination steamer, U-box)

**2. BASF Soft Bleach System** (Maximum float application)

Combined bleaching and boiling-off process for fabric desized by the Lusynton® SE or RedEX process (see TI/T 316 e)

Hydrogen peroxide 35 %	20 – 50 ml/kg
NaOH 100%	10 – 18 g/kg
Prestogen® Stabilizer F-PL	10 – 15 ml/kg
Kieralon® Wash F-MFB	2 – 4 ml/kg
Impregnation temp	RT
Liquor pick-up	Maximum
Steaming temperature	approx. 100 °C
Steaming time	15 – 20 min. (e. g., combination steamer, U-box)

**Cold Bleach with Hydrogen peroxide**

Hydrogen peroxide, 35%	40 – 50 ml/l
NaOH, 100 %	20 – 40 g/l
Prestogen® Stabilizer F-PL	8 – 12 ml/l
Persulphate	0 – 3 ml/l
Kieralon® Wash F-MFB	4 – 6 ml/l
Lufibrol® Extract MSD	3 – 5 ml/l
Kieralon® Wet FR-M	1 ml/l
Impregnation temp	RT
Liquor pick-up	approx. 100% for CO approx. 70 % for PES/CO
Reaction time	approx. 16 – 24 hours
Steaming temperature	approx. 100 °C
Steaming time	15 – 20 min. (e. g., combination steamer,U-box)

**Scouring**

Kieralon® Wash F-MFB	1 g/kg
Lufibrol® Extract MSD	1 g/kg
Temperature	90 – 95 °C

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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.

