

## Product Information Auxiliaries

### Sera<sup>®</sup> Lube M-CF

(Romapon<sup>®</sup> 173)

Multi-purpose lubricant and padding auxiliary

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<b>Function</b>	Crease inhibitor and lubricant for dyeing and scouring processes
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<b>Properties</b>	<ul style="list-style-type: none"> <li>- has lubricating properties</li> <li>- prevents crease formation in dyeing of fabrics made of acrylic, wool, wool blends, polyamide, silk and cellulosic knit</li> <li>- prevents crease formation during milling wool-containing fabrics</li> <li>- reduces milling of wool blends during dyeing</li> <li>- does not foam and may therefore be used on all dyeing machines including jets</li> <li>- shows good compatibility with anionic and cationic dyestuffs</li> <li>- does not retard dyes</li> <li>- avoids moiré in beam dyeing machines</li> <li>- prevents channelling of dye liquor in dyeing of hanks and raw stock</li> </ul>
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<b>Chemical Characteristics</b>	Nonionic polyacrylamide
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<b>Technical Data</b>	<table> <tr> <td>Appearance:</td> <td>almost colourless, viscous liquid</td> </tr> <tr> <td>pH:</td> <td>6 - 8</td> </tr> <tr> <td>Ionicity:</td> <td>nonionic</td> </tr> <tr> <td>Dilution procedure:</td> <td>stir well with warm or hot water</td> </tr> <tr> <td>Shelf life:</td> <td>1 year in closed original containers</td> </tr> </table>	Appearance:	almost colourless, viscous liquid	pH:	6 - 8	Ionicity:	nonionic	Dilution procedure:	stir well with warm or hot water	Shelf life:	1 year in closed original containers
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## Application

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### 1. Washing of fabrics which are sensitive to creasing and felting

In washing Sera Lube M-CF is used in concentrations of 0.5 - 1.0 g/l. The time of treatment depends on the degree of soiling and fabric quality. When using Sera Lube M-CF loading of the machine may be increased.

Sera Lube M-CF is compatible with anionic and nonionic surfactants. The product also may be used with solvent containing surfactants.

Typical washing recipe:

1.0 - 2.0 g/l	Sera Lube M-CF
1.0 - 2.0 g/l	Sera Wash M-EX
1.0 g/l	soda ash, ammonia or Sera Quest C-PX

20 - 30 min/40 - 50 °C.

Sera Lube M-CF also can be used advantageously in washing and desizing of jeans.

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### 2. In milling

The particular advantage gained from the use of Sera Lube M-CF derives from the outstanding properties regarding prevention of crease marks. Fabrics become slippery and soft with Sera Lube M-CF. Rope creases therefore relocate quickly during running of the machine.

Heavily soiled fabrics are prescoured. In this case, Sera Lube M-CF may be added to the scouring bath. However, usually it is sufficient to use the product in the milling liquor.

The used concentration in milling is 1 - 2% on the weight of fabric depending on the sensitivity of the fabrics.

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### 3. Dyeing

#### a. Dyeing of wool

Addition of 2% Sera Lube M-CF on the weight of fabrics to a dyebath reduces markedly the formation of creases. Often, especially when dyeing light fabrics, sewing into tubular form is not required. The fabrics become softer and smoother and felt less. The fabric appearance stays clean and attractive.

In dyeing Sera Lube M-CF is added as first auxiliary to the bath. Then the fabrics are loaded. This product is compatible with the usually employed dyestuffs at the corresponding pH values. All additions therefore are given into the same bath.

Stripping and re-dyeing often causes a change in fabric appearance due to the long duration of such treatments. In these instances, Sera Lube M-CF provides a distinct improvement due to its antifelting properties.



Typical dyeing recipe:

2 %	Sera Lube M-CF
x %	acid dyestuff
5 %	sodium sulphate
x %	sulphuric, formic or acetic acid, depending on the dyestuff
0.5 - 1.5 %	Sera Gal W-SX

60 - 90 min at boiling temperature.

#### **b. Dyeing of pile fabric with Sirius® dyes (corduroy, velours, velvet, plush)**

In dyeing of these fabrics the deformation of pile should be avoided to obtain a smooth fabric appearance. Due to the lubrication and crack-mark prevention with Sera Lube M-CF, it is much easier to obtain an even and attractive fabric appearance.

To obtain best results, the dry fabrics are wetted with Sera Lube M-CF. The other dyeing chemicals are added to this bath later.

Sera Lube M-CF is compatible with the dyes usually employed.

Typical dyeing formula for cotton fabrics:

2 %	Sera Lube M-CF
0.5 - 2 %	Sera Gal C-ED
x %	Sirius dyes
5 - 20 %	sodium chloride or sodium sulphate

60 min/98 °C.

#### **c. Dyeing of acrylic fabrics**

The formation of creases and crackmarks in dyeing and during the cool-down after dyeing can be reduced by employing Sera Lube M-CF.

Sera Lube M-CF is nonionic and therefore compatible with cationic dyes, retarders and levelling agents.

Typical dyeing formula:

2 %	Sera Lube M-CF
0.5 %	Sera Sperse M-IW
x %	Astrazon® dyes
0.5 - 1.5 %	Sera Gal A-AS or Sera Gal A-ME

60 - 90 min at boiling temperature.

Dyeing is carried out as usual. Slow heating and slow cooling is essential for good levelness and avoidance of creasing.





#### **d. Dyeing of polyester and polyamide**

Sera Lube M-CF can also be used advantageously as lubricant in dyeing polyester and polyamide on jets.

Recommended amounts

1 - 2 % Sera Lube M-CF

#### **e. Dyeing of cellulosic knit goods**

Sera Lube M-CF has given good results in dyeing cellulosic knit goods on the winch beck and on jets with low liquor ratio. The fabric appearance is maintained and crease mark formation is prevented. The product is compatible with the usually employed amounts of salt and alkali during dyeing with reactive dyes. It does not cause dye retardation.

#### **f. Prevention of Moiré**

To prevent moiré in beam dyeing, the goods are padded with 10.0 - 20.0 g/l Sera Lube M-CF and wound onto the perforated beam, then dyed as usual.

#### **g. Package units**

In package-dyeing, the goods are pre-wetted with 1.0 - 2.0 g/l Sera Lube M-CF and dyed as usual. Less channelling will result and therefore a more level dyeing.

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