

# Technical Information

## Leomin CK1

### Introduction

Leomin CK1 is used as a primary finish and lubricating additive in fiber manufacturing and processing.

- Exhibits good lubricating properties
- Supports Wetting of yarn
- Improves fiber/fiber cohesion and reduces fiber/metal friction.

### 1. Product properties

Composition	fatty acid polyglycol ester
Concentration (active substance)	about 100%
Appearance	clear, yellowish liquid
Ionic character	non-ionic
pH	about 6 - 8.5
Dilutability	dilutable in cold demineralized water in any ratio
Storage	At least 1 year when properly stored – storage temperature should not drop below 15 °C
Biodegradability	readily biodegradable

## **2. Application properties**

### **Frictional properties**

Leomin CK1 gives a low dynamic fiber/metal friction coefficient and a high static fiber/fiber friction coefficient to the treated fiber.

Due to the high degree of dynamic smoothness and fiber-to-fiber cohesion that it imparts and its good spraying properties when diluted with water in any ratio, Leomin CK1 is suitable as a lubricant for synthetic fibers, wool and their blends.

## **2. Application**

Leomin CK1 is used either alone or as emulsifier in combination with other non-ionic, anionic or cationic components in fiber finishes for fiber manufacturing and textile mills. It's mainly as spinning lubricant in over spraying and backwashing, as well as lubricant for needle-punched fabrics.

### **Application concentration and fiber deposit**

Leomin CK1 is not substantive to the fiber. For fiber manufacturing and yarn lubrication the required OPU is about 0.1-0.3 % of active matter.

### **Special applications**

Polypropylene flat yarn

Leomin CK1 is applied out of a 10-15 % aqueous solution either with lick roller or bath.

The required OPU should be 0.5-0.8 % depending on the yarn count

Polypropylene tapes

For this special purpose it is recommended to apply Leomin CK1 during warping by lick roller system as neat oil.

### **Determination of amount applied**

By Soxhlet extraction – on synthetic fibers with methanol, on wool with methylene chloride.



This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Archroma makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Archroma's products for its particular application. \* Nothing included in this information waives any of Archroma's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Archroma products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Archroma. \*For sales to customers located within the United States and Canada the following applies in addition: NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.

® Trademark of Archroma registered in many countries © 2013 Archroma

