OSM Shield, LLC
97 Main Street
Suite W-202
Edwards, CO 81632
(970) 390-8717

TECHNICAL INFORMATION

DT-CLH 004

Introduction

DT-CLH 004 Liquid is a sewing/napping lubricant exhibiting high heat stability designed to dramatically improve the sewing and napping performance of goods made from cellulosic, wool, and synthetic fibers. This product not only reduces equipment failure rates, but also imparts a soft, full hand to the treated goods.

DT-CLH 004:

- Is recommended for exhaust and padding applications
- Produces a soft, full handle
- Does not influence the shade or fastness properties of dyed goods
- Does not affect the whiteness of brightened goods
- Minimizes needle breakage and optimizes machine efficiency

1. Properties

Appearance:	Translucent, whitish liquid
Composition:	HDPE dispersion
Ionicity:	Slightly cationic
pH:	5.5 – 7.0
Specific Gravity:	0.95 – 1.05 (25 °C/77 °F)
Dilutability:	Unlimited with cold water

Compatibility with other finishing products:

- Nonionics: Good
- Anionics: Good
- Cationics: Good
- Acids: Good to pH 2.0
- Bases: Good to pH 12.0
- Hardness: Good to 40°GH
- Resin systems: Good, check before using

Storage Stability:	Freezes below 0 °C/32 °F, but is fully effective after thawing
Eco-toxicological data:	See MSDS

2. Application Properties

2.1 Padding Process:

10-60 g/l DT-CLH 004

Pad on dry goods (100% pickup) at room temperature

Dry conventionally

2.2 Exhaust Process:

1-6% DT-CLH 004 (based on weight of goods)

For cellulosic fibers, pH = 6-7 with acetic acid or sodium bicarbonate.

For synthetics, pH = 7.5-9.0 with sodium bicarbonate or soda ash.

Temperature 32-54 C/90-130 F, 15-20 minutes, hydro-extract and dry conventionally.

2.3. Due to its excellent compatibility, DT-CLH 004 can be used in all common finishing formulations.

If stripping the fabric is required, DT-CLH 004 can be removed as follows:

1.0 – 2.0 g/L Imerol detergent
1.0 – 2.0 g/L soda ash
Run 30 minutes at 70 – 90 °C/158 – 194 °F
Rinse

All OSM Shield chemical auxiliaries are Bluesign approved, REACH compliant, ZDHC Level 1 registered, PFC-Free, and PFOA-free.