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Associazione Tessile e Salute
Azienda associata

p.IVA 00736390964 C.F. 02639210158 c.c.i.a. Milano n. 927455 Codice ISS azienda 00736390964

NETZER JET ECO

Special mineral-based detergent, free from surfactants and phosphorus, specifically designed for fibre preparation treatments

• Product Characteristics

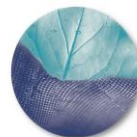
Property	Specification
Appearance at 20°C	Grey liquid dispersion
Ionic character	Not applicable
pH (2% solution)	Slightly acidic
Solubility	Dispersible in water in all proportions
Hard water stability	Good
pH stability	Stable under normal process conditions
Compatibility	Compatible with non-ionic and anionic products; not compatible with cationic products or lubricating polymers such as polyacrylamide
Storage stability	Store at $\geq +5^{\circ}\text{C}$; may freeze at lower temperatures. Bring to normal working temperature before use

• Technical Performance / Application Properties

- Mineral-based product with **extremely fine particles**.
- Detergent specifically designed for the **preparation of synthetic fibres**, especially blends with **elastane** (not suitable for acrylic fibres or their blends).
- Suitable for **cones and beams**.
- **Excellent biodegradability**; extremely low COD, BOD, and MBAS values.
- Excellent absorbency for **oily substances, waxes, paraffin**, and silicone residues on textiles.
- Highly effective in removing **silicone oils from elastane fibres**.
- Suitable for the removal of **fluorocarbons and silicone finishes**.
- **Low foaming** properties.



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- Liquid formulation suitable for **automatic dosing pumps**.
- Exhibits **moderate wetting**; for hydrophobic articles, an **additional wetting agent** may be required.
- Compatible with **modern scour/dyeing processes**.

• Usage Instructions

NETZER JET ECO is **easily dispersible in water** in any proportion. A premix of **50 parts product : 50 parts water** is recommended.

Suggested concentrations:

- **Preparation / Scouring:** 1.5 – 3.0 g/L NETZER JET ECO
- **Removal of finishes:** 3.0 – 5.0 g/L NETZER JET ECO

• Application

NETZER JET ECO is a **special mineral detergent with extremely fine particles**, specifically designed for **preparing synthetic fibres**, particularly those blended with **elastane**. It is **not suitable** for acrylic, modified polyester, or their blends due to incompatibility with **cationic dyes**.

The product has **high absorbency for fats, waxes, paraffin, and silicone oils**, particularly on **elastane fibres**. These substances are **chemically and physically absorbed**, kept in **stable dispersion during washing**, and removed during rinsing.

For **polyester and polyamide dyeing**, after pretreatment, the use of **0.5 – 0.7 g/L NETZER JET ECO** as a **dispersing/adsorbing auxiliary** in the dye bath is recommended.

NETZER JET ECO can also be applied in **simultaneous scour/dye processes**, eliminating the need for a separate preliminary scour step (except when cationic inhibitors or polymer-based dispersion/crease auxiliaries are used).

It is also effective in removing **fluorocarbon and silicone finishes**, typically under **strongly alkaline conditions**, making it suitable for **alkali-resistant fibres**.

• Example Recipes

A. Pretreatment of Textile Products

- **Preparation:**
 - 1.5 – 3.0 g/L NETZER JET ECO



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- 1.0 – 3.0 g/L Sodium carbonate (for cellulosic fibres)
- 0.5 – 1.0 g/L Defoamer (if required)
- Treat at 30–60°C for 20–30 min → rinse

- **During Dyeing:**

- 0.5 – 0.7 g/L NETZER JET ECO

B. Removal of Fluorocarbon and Silicone Finishes

- 5.0 – 8.0 g/L NaOH 30%
- 3.0 – 5.0 g/L NETZER JET ECO
- 1.0 – 2.0 g/L detergent
- Treat at 90–100°C for 40–60 min → rinse thoroughly with hot and cold water

C. Stains and Dyes

- 1.5 – 3.0 g/L NETZER JET ECO
- Add to treatment bath and follow normal dyeing cycle

Keywords: detergent, fibre preparation, elastane, degreasing, emulsifier, silicone removal, fluorine removal

The information contained in this circular are given according to our best knowledge and experience, however, given the multiplicity of systems of work and applications we can not assume guarantees for the individual case
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