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Associazione Tessile e Salute
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DECLORINA Z

Reducing agent for discharge printing and fibre dye removal on synthetic and natural substrates

Chemical-physical characteristics

Property	Specification
Chemical nature	Zinc-formaldehyde sulfoxylate derivative
Physical appearance	White crystalline powder
Solubility	500 g/L; easily soluble in water
pH of 1% aqueous solution	~5
Apparent bulk density	1300 kg/m ³
Stability	Slightly hygroscopic; decomposes on prolonged exposure to air or acidic vapours
Storage stability	At least 12 months under appropriate conditions (cool, dry place, temperature $\leq 25^{\circ}\text{C}$)

Application

DECLORINA Z is a **reducing agent** primarily used in various types of **discharge printing** ("corrosion printing"), in particular for:

- **White corrosion printing** on corrodible dyed **acetate, triacetate**, and blends with **polyamide**, as well as on **polyester, polyamide, acrylic, wool, and silk**.
- **White corrosion/reserve printing** on corrodible **foularded or printed triacetate, triacetate/polyamide, and polyester substrates**.
- **Colored corrosion printing** using **acid dyes** on corrodible **polyamide, wool, and silk**.
- **Colored corrosion/reserve printing** with dyes stable to corrosion on corrodible fabrics dyed with **direct and reactive dyes**.

Note: Corrosion or corrosion/reserve printing with **disperse dyes** is not recommended due to the lack of a dye range stable to DECLORINA Z.

The same applies to **vat dyes**.



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Method of use

- When using DECLORINA Z in **corrosion printing**, it is necessary to use **thickeners stable to heavy metal salts**.
- In **superheated steam fixation**, residual thickeners may cause **hardening of the hand**.
- Increasing the concentration of DECLORINA Z generally increases the **viscosity of the printing paste**, allowing the use of **less thickener**.
- It is recommended **not to exceed 200 g/kg** of DECLORINA Z in printing pastes.

Keywords: reducing agent, discharge printing, corrosion printing, fibre discharge, reserve printing, colour reserve

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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