

AVCO-CHARGE RED ZN

DISCHARGING AND REDUCING AGENT FOR TEXTILE PRINTING

AVCO-CHARGE RED ZN is a special discharging agent for printing textile fabrics pre-dyed with suitable dischargeable dyes.

AVCO-CHARGE RED ZN is recommended for white discharge effect and for colour printing on dark grounds.

Appearance	White chip, powder.	
Chemical nature	Blend of Zinc hydroxymethane sulphinate and stabilizers.	
Compatibility	Not compatible with alkalis, acids and oxidizing agents. Good with water hardness.	
Density (kg/m³)	App. 1300	
pH (10% sol.)	3.5 – 5.2	
Solubility	App. 500gr/l	
Storage	Keep in cool and dry place. Sensitve to moisture. Do not store in direct sun. Partially used drums should be re-sealed with the original cover	
Safety	When mixed with acids may evolve toxic gas	

SPECIFICATION:

PROPERTIES & USES:

- 1. AVCO-CHARGE RED ZN provides a unique versatility of printing on both cotton and synthetics due to the exceptional stability over long period and high compatibility with various print systems
- 2. AVCO-CHARGE RED ZN gives excellent definition of discharge printing.
- 3. Due to strong and consistent reduction power, AVCO-CHARGE RED ZN offers a very good print production and excellent reproducibility.
- 4. AVCO-CHARGE RED ZN is highly versatile so can be used in both natural and synthetic recipes.
- 5. AVCO-CHARGE RED ZN is ecologically acceptable



APPLICATION:

AVCO-CHARGE RED ZN is used for producing white discharge on cotton and its blends.

In order to produce white discharge prints with AVCO-CHARGE RED ZN on cotton, the ground shade of the fabric must be padded/dyed using dischargeable dyes. The suitable thickener used for this kind of printing are Sodium alginate, Starch, British gum, Modified Guar gum.

The pigment discharge is usually carried out over reactive dyed grounds

Typical recipe:

Thickener	400 – 500 gr
AVCO-CHARGE RED ZN	100 – 120 gr
Na2CO3/ K2CO3	20 – 40 gr
Glycerine	40 – 60 gr
OBA	2 - 5 gr
ZnO/ TiO2 ¹	50 gr
Anthraquinonepdr ²	10 gr
Dissolving salt	<u> 10 – 20 gr</u>
Water to	1000 gr

Application technique

Print the fabrics with the above paste and dry it around $80 - 95^{\circ}$ C. Then the fabrics should be steamed at 102° C with saturated steam for 20 -25 minutes in Star Ager or 7 -10 minutes in Continuous Ager.

Finally wash the fabrics in cold then dry.

Notes:

¹ Pigment serving dual purpose of whitening and also preventing "halo" effect.

² Antraquinone acts as a discharge intensifier.

Quantity of AVCO-CHARGE RED ZN used in above printing paste varied with depth of ground shade and dyes used. Addition of auxiliaries for improving Discharge effect can be used.

Adding acid donor improves the discharge effect but reduce the shelf-life of the paste. The printed fabrics should be steamed and wash off as soon as possible to avoid any problem of impression on effect on dyed ground.

Printing paste containing AVCO-CHARGE RED ZN should be used within the preparation day.

Technical – **Information**



AVCO-CHARGE RED ZN should be applied with thickeners which are resistant towards heavy metal. When adding AVCO-CHARGE RED ZN to the thickener paste the viscosity may increased or decreased

Although it is preferred to dry and then steam the fabrics after printing to obtain the maximum degree of discharge, a limit amount of discharge can be obtained in hot air curing oven.