

Evoran series

Evoran RC-ALK

Reduction clearing agent after polyester dyeing in alkaline medium.

INTRODUCTION

The redox potential which forms in the presence of caustic soda is sufficient to destroy most disperse dyes but not adequate to attack vat, naphthol and many reactive and direct dyes. After polyester dyeing, conventional reduction clearing is done with hydrosulphite and caustic in alkaline medium.

Stalwart has developed **Evoran RC-ALK** that has high dispersing power at all temperatures and its reducing action is developed in alkaline medium above 90°C so that unfixed disperse dye on the fibre surface is destroyed and the degraded products are finely dispersed in the washing liquor, thus preventing staining of the ground. Replaces the usual detergent in the reduction clearing of dyeing and printing with disperse dyes on polyester fibres.

FEATURES

- Low foaming.
- Possess excellent thermal stability.
- Is also suitable for reduction clearing of PES & PES/CEL blends.
- Promotes removal of unfixed dyes.
- No influence on shade/color.
- Replaces hydrosulphite and the usual detergent in the reduction clearing of dyeings and prints with disperse dyes on polyester fibres.

PROPERTIES

Appearance	Colourless clear liquid
pH (1%)	approx.4.0

Compatibility with	
Cationic	Good
Anionic	Good
Non-ionic	Good

STALWART ADVANCE MATERIAL INDS

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Stability to	
hard water	Good
electrolyte	Good
temperature	Good

SCOPE OF APPLICATION:

1. Reduction clearing of dyeing on PES

1.1 Discontinuous method

1 - 3 g/l	Set the clearing bath at 50°C with
1.5 – 1%	Evoran RC-ALK
	caustic soda solid
	Heat to 80°C - 90°C and
	Treat for 15 – 20 mins at 80°C - 90°C
	Cool to 50°C
	Rinse once at 40°C - 50°C
	Rinse cold, neutralize with acetic acid if necessary.

1.2 Continuous method

	Rinse cold
	Rinse hot at 80°C - 90°C
	Treat at 80°C with
2 – 6 g/l	Evoran RC-ALK
1 – 2 %	caustic soda solid
	Rinse cold, neutralize with acetic acid if necessary.

Reinforcement :

Strengthen every 20 mins with ca.1/3 the amount of Evoran RC-ALK and ca.1/6 the amount of alkali.

2. Reduction clearing of prints on PES

	Rinse cold
1 st bath :	at 20°C - 30°C with 1 g/l Ultreza DLP
2 nd bath :	at 40°C - 50°C with 2 g/l Ultreza DLP
3 rd bath :	at 70°C - 80°C with 2–6 g/l Evoran RC-ALK
	1–3 g/l caustic soda solid
	Rinsing baths** with decreasing temperature from 80°C to cold
Last bath :	rinse cold if necessary with acetic acid.

**with alginates or synthetic thickeners (soft water is recommended for rinsing baths)

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3. Reduction clearing of dyeing on PES/CEL blends

3.1 Discontinuous method for disperse/vat dyes

	Rinse the dyeing well, oxidize vat dyes as usual
	Soap at the boil with the usual detergent
	Rinse warm once
	Set a fresh bath with
1 - 2 g/l	Evoran RC-ALK
0.5 – 1.5 %	caustic soda solid
	And treat for 15 – 20 minutes at 80°C - 90°C
	Rinse once at 40°C - 50°C
	Rinse cold, neutralize with acetic acid if necessary.

3.2 Discontinuous method for disperse/reactive dyes

	Rinse the dyeing well
	Set a fresh bath with
1 - 2 g/l	Evoran RC-ALK
0.5 – 1 %	caustic soda solid
1 g/l	sodium tripolyphosphate
	And treat for 15 – 20 minutes at 70°C - 80°C
	Rinse once at 40°C - 50°C
	Rinse cold, neutralize with acetic acid if necessary.

3.3 Continuous method for disperse/vat dyes

	Rinse warm at 50°C and oxidize as usual
	Soap at 95°C with the usual detergent
	Reduction clear at 70°C - 80°C with
2 – 6 g/l	Evoran RC-ALK
1 – 2 g/l	caustic soda solid
	Rinse warm at 50°C
	Rinse cold, neutralize with acetic acid if necessary.

3.4 Continuous method for disperse/reactive dyes

These dyeing can be cleared in the same manner but without soaping at the boil. Add 1 – 2 g/l sodium tripolyphosphate to the clearing liquor.

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4. Reduction clearing of prints on PES/CEL by the continuous method

	Rinse cold	
1 st bath :	at 40°C with	2 g/l Ultreza DLP
2 nd bath :	at 60°C with	2 g/l Ultreza DLP
3 rd bath :	at 50°C - 70°C with	2 g/l Evoran RC-ALK 0.5 g/l caustic soda flake
4 th bath :	at 80°C with	4 g/l Evoran RC-ALK 1 g/l caustic soda solid
5 th bath :	at 80°C	as bath 4
6 th bath :	at 60°C with	water
7 th bath :	with	cold water
8 th bath :	with	cold water, neutralize with 0.5 ml/l acetic acid.

STORAGE AND HANDLING

Precautions for safe handling	Do not eat, drink or smoke while handling the product.
Conditions for safe storage	Store in a cool, dry & ventilated area away from the sources of heat.
Shelf Life	6 months.

Note: Kindly refer SDS for further information on Storage & Handling.

Evoran is a registered trade name of Stalwart Advance Material Inds.

The information and recommendations presented here were based on our general experience and correspond to the state of our knowledge. They are intended to service as non-binding guidelines and must be adapted to the prevailing conditions. We cannot accept liability for any injury, loss or damage resulting from reliance upon such information.

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