



## **NESTOGEN - ARC**

(High performance Reduction Clearing agent in Acidic media for Polyester and blends.)

**NESTOGEN - ARC** is a specially developed post clearing agent for Disperse dyeings on Polyester and its blends.

### **PROPERTIES :**

|                     |   |
|---------------------|---|
| PHYSICAL APPEARANCE | : Clear colourless to slightly yellowish liquid.  |
| CHEMICAL NATURE     | : Organic reducing agents.  |
| IONIC NATURE        | : Anionic.  |
| pH                  | : 10 – 11.  |
| SOLUBILITY          | : Completely miscible with water.   |
| COMPATIBILITY       | : Compatible with Anionics and Non-ionics.  |
| STABILITY           | : Stable to hard water and alkalies. Should be mixed with acids in dyeing apparatus rather than in the dissolving tank.   |
| STORAGE STABILITY   | : When stored in sealed containers and below 35 <sup>o</sup> C temperature it has stability up to one year. Partly used containers should be kept tightly closed and used as early as possible. |
| ECOLOGY             | : It is readily bio-degradable and bio-eliminable.  |

### **APPLICATION:**

**NESTOGEN - ARC** has an excellent reductive action on unfixed disperse dyes from Polyester and its blends and very effectively removes loosely attached dyestuffs on fibers as well as residual non-exhausted dyes in the cooling stage in the acidic dye baths. When the reductive clearing agent has completely reacted, the pH of the liquor is practically neutral.

**NESTOGEN - ARC** does not increase the tendency of polyester to release oligomers, and hence in yarn dyeing, when the dye bath is dropped at high temperatures, no increase in the amount of oligomers found on the fibers. However, filter effect may occur, when a certain high oligomer releasing type of polyester yarn dyed in loosely wound packages and dark shades and reductive clearing is carried in the same bath. In such cases the goods must be reductive cleared in the fresh bath.

**NESTOGEN - ARC** can be applied in all the usual dyeing machines. It is stable to air and forms no foam, hence can be effectively used in Jet dyeing machines. There is no need to add alkali in the dye bath as per the conventional R/C process.

**The product appearance varies from batch to batch. The colour & viscosity may vary from batch to batch and its intensity is not an indication of product strength.**

NONWARRANTY: The suggestions and data in this bulletin are based on information we believe to be reliable. They are offered in good faith but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions on an experimental basis before adopting them on a commercial scale.

1) Light to medium shades :

0.5 – 1 gpl **NESTOGEN - ARC**  
0.75-1 gpl NEWTRACID or Acetic Acid ( pH between 4 - 5 )  
At 80°C for 15-20 min. Rinse hot and cold.

2) Dark shades :

0.7-1.5 gpl **NESTOGEN - ARC**  
0.75-1 gpl NEWTRACID or Acetic Acid ( pH between 4 - 5 )  
At 80°C for 15-20 min. Rinse hot and cold.

## **ADVANTAGES :-**

- It completely eliminates use of corrosive Caustic and Hydrosulphite process for reduction clearing.
- It is effective in acidic pH, hence can be used in same bath or in fresh bath there is no need to use alkali.
- Because of the acidic pH of the bath, there is no need to neutralize the residual alkali on the treated goods.
- Very effective in saving process time, energy, water and chemicals and the waste water is much cleaner, reducing the effluent load considerably.
- Stable to air, easy to rinse.
- Does not affect fastness.

**Storage stability** : Good shelf life under proper storage conditions.  
**Packing** : 50 kg. Carboys

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