Procedure



How to Exhaust-Dye Cotton Using **Orco Reactive MX-Series™** Dyes

- 1. Prepare and prescour cotton goods. Goods should have good absorbency, wet-out, and contain no residual chlorine, peroxide, or alkali.
- 2. At 105°F(40°C) add:

1.0% Orconol CHSA Conc™ on weight of fabric(owf)
0.067 oz/gal(0.5g/L) Sodium Hexametaphosphate,
1.0% owf Orcotol MN Powder™(for closed machines such as jets), and
X% owf MX-Series™ dye properly prepared.

- 3. Run for 5-10 minutes.
- 4. Add common or Glauber's salt as prescribed in chart below. Run for 25 minutes. This should be added in thirds in 5-minute intervals when dyeing light shades to help promote dyeing levelness.

| <u>% owf</u> | oz/gal(g/L) |
|--------------|-------------|
| to 0.50 | 5 (38) |
| 0.51-1.00 | 7 (53) |
| 1.01-2.00 | 9 (68) |
| 2.01-4.00 | 12 (91) |
| 4.01+ | 13 (98) |

5. Add soda ash as prescribed in chart below. This should be added in thirds when dyeing light shades to help promote dyeing levelness. Run 45-60 minutes.

| <u>% owf dyes</u> | Soda As | sh oz/gal(g | <u>l(g/L)</u> | |
|-------------------|-------------|--------------|---------------|--|
| | <u>15:1</u> | <u> 20:1</u> | <u>30:1</u> | |
| to 0.5 | .67 (5) | .40 (3) | .27 (2) | |
| 0.51-2.0 | .67 (5) | .53 (4) | .27 (2) | |
| 2.01-4.0 | 1.33 (10) | 1.06 (8) | .53 (4) | |
| 4.01+ | 2.00 (15) | 1.33 (10) | .66 (5) | |

- 6. After dyeing, overflow rinse until clear using cold water. Drop bath.
- 7. In new bath at 100°F(38°C) neutralize with 0.133 oz/gal(1g/L) of Acetic Acid 56% or more if necessary for neutralization of residual alkali for 10 minutes. Drop bath.
- 8. Soap at boil using 0.25% owf **Orcopon KP™** for 10-15 minutes. Warm rinse at 140°F(60°C).
- 9. Hot rinse then cold rinse until clear.

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