



A Division of Kingscote ChemicalsT

TECHNICAL DATA SHEET

Appearance: Translucent green liquid

Description: Bright Dyes® MT-90 (formerly 9000 Liquid Sealer) is a mid-temperature, low foaming nickel acetate liquid sealer for use on clear, organically dyed, and two-step electrolytically colored anodized aluminum. It is designed to provide a non-yellowing, smut-free surface to anodic coatings. It is easy to operate and maintain and, when used at the recommended parameters, will meet current seal tests.

Specific Gravity: 1.09

Operating Parameters

| | |
|----------------|---|
| Tank: | Stainless steel |
| Water type: | Deionized or reverse osmosis preferred (adjust pH to 5.0 – 5.5 before adding MT-90) |
| Concentration: | 1.5 – 5.0% by volume |
| pH: | 5.3 – 5.8 (Raise with ammonium hydroxide, lower with acetic acid) |
| Temperature: | 160 – 190° F |
| Time: | 5 – 20 minutes |
| Other: | Filtration & moderate agitation recommended Separate tanks recommended for clear and dyed pieces If sealing smut or a water-break free surface after rinse is noticed on parts, MT-90A should be added to sealer bath |

Control Procedure

1. Pipette a 25 mL sample of MT-90 sealer solution into a 250 mL Erlenmeyer flask
2. Add 25 mL deionized water
3. Add 10 mL of concentrated ammonium hydroxide and mix well
4. Add a pinch of murexide indicator
5. Titrate with 0.1M EDTA to a purple-violet color

mL of 0.1M EDTA x 0.534 = % by volume of MT-90

Storage and Safety

- Store in a cool, dry location, away from alkaline materials; do not allow to freeze
- Over time, crystals may develop in bottom of container
- Shelf Life 3 years
- May cause irritation if allowed to contact skin. The use of gloves and goggles is recommended when handling this product. Consult the MSDS for more information.

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