

Specialty Bordeaux R

Aluminum Dye

1. Description

Specialty Bordeaux R is a single component, water soluble dye, used to color anodized aluminum strawberry red.

☑ RoHS compliant

☑ REACH compliant

2. Application instructions

Concentration: 2-6 g/l

pH: 5.0-6.0

Buffering: Not required

Temperature: 135-145°F / 57.22-62.77°C

Coating thickness: 0.50 mils. or greater

Dye time: Depending on the shade desired, dye times could range from 10-20 minutes,

but can only be determined by sampling in plant production.

Preferred sealing: Specialty Sealant MTL

Specialty Sealant

3. Conditions for using Specialty Bordeaux R

Tank: Stainless steel or other acid resistant materials such as neoprene, polyethylene

and polypropylene that can withstand a constant operating temperature of 135-

145°F.

Water quality: Deionized

pH adjustments: Raise with sodium hydroxide.

Lower with acetic acid.

The pH should be checked once per shift with a calibrated meter and

maintained within recommended range.

Bath agitation: Mild agitation must be used for high uniformity of color.

Rinsing: It is important to remove all acid residues clinging to the work and acid

retention in the oxide pore itself. Rinse work load thoroughly after anodizing. A minimum of two rinses is recommended, with the second rinse at over-flow.

To increase rinsing effectiveness, add vigorous air agitation in all rinse tanks. This also improves your rinsing of surfaces on complicated shaped parts.

4. Lightfastness

Rating: 3-5 (1=poor, 8=excellent)

This color is not recommended for outdoor applications or other situations where it is subjected to intense UV radiation.

5. Storage

Store in original container in a cool dry location. Close package tightly after removal of dye. In humid environments, dye powder may clump-up.

6. Preparation of a new dyebath

- A cleaned tank is filled with deionized water to about 75% of final volume and raised to dyeing temperature.
- 2. The required amount of dye is weighed out and dissolved in hot deionized water (160-180°F) in a separate container until a slurry is formed. This is your stock solution.
- 3. With agitation turned on in tank, pour stock solution into tank.
- 4. Top off the tank to final working solution volume with more hot deionized water and agitate for 15 minutes.
- 5. Using a calibrated pH meter, check the pH and adjust if necessary.
- 6. The dyebath is brought to dyeing temperature, 135-145°F.

7. Conversion factor

Converting grams per liter (g/l) to ounces per gallon (oz/gal)

 $g/I \times 0.134 = oz/gaI$

8. Dyebath concentration determination

Dyebath concentration can only be determined by spectrophotometric analysis. Full instructions are available upon request.

9. Product safety

We recommend that the company/operator read and review the Safety Data Sheet for the appropriate health and safety warnings before use.

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