



PRODUCT INFORMATION

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EMERGENCY - MARTRON 704-289-1934

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REF. # RES-010728

MARTRON DEEP BLACK DYE MLW

Aluminum Dye

1. Description

Martron Deep Black Dye MLW is a multi-component, water soluble dye, used to color anodized aluminum black.

An industry standard for over 25 years.

Excellent light fastness

Hard coat compatible

RoHS compliant

2. Application Instructions

	<u>Indoor Applications</u>	<u>Outdoor Applications</u>
Concentration:	9-11 g/l	12-14 g/l
pH:	4.5-5.2	4.5-5.2
Buffering:	Not required	Not required
Temperature:	140°F ±5°F/60°C	140°F ±5°F/60°C
Coating thickness:	0.60 mils. or greater	0.80 mils. or greater
Dye time:	10-15 minutes	20-30 minutes
Preferred sealing:	Matron Ni Acetate Sealer Martron Sealant	Matron Ni Acetate Sealer Martron Sealant

3. Conditions for Using Martron Deep Black Dye MLW

Tank:	Stainless steel or other acid resistant materials such as neoprene, polyethylene and polypropylene that can withstand a constant operating temperature of 140°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:	Moderate 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. Light Fastness

Rating: 8 (1=poor, 8=excellent)

5. Storage

Shelf life is virtually unlimited.
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 Dye Bath

1. 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 hotter deionized water and agitate for 15 minutes.
5. Using a calibrated pH meter, check the pH and adjust if necessary.
6. The dye bath is brought to dyeing temperature, 140°F ± 5°F.

7. Conversion Factor

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

$\text{g/l} \times 0.134 = \text{oz/gal}$

8. Product Safety

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

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