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### TECHNICAL DATA BULLETIN

**Appearance:** Red-orange powder

**Description:** Bright Dyes® Violet E-3D is a metal-free dye which is not recommended for outdoor use or prolonged UV exposure. Anodized parts colored in this dye will result in a violet shade with red hues.

#### Operating Parameters

Tank:	Polypropylene, plastic, or stainless steel
Water type:	Deionized or reverse osmosis preferred
Concentration:	1 – 3 g/L
pH:	5.0 – 6.0 (Raise with ammonium hydroxide, lower with acetic acid)
Temperature:	110 – 140° F
Time:	3 – 10 minutes
Other:	Agitation recommended to maintain uniform bath temperature Rinse parts thoroughly before dyeing to avoid drag-in

#### Recommended Sealing Methods

- Bright Dyes® HT-70
- Bright Dyes® MT-90

**Light Fastness:** 4 – 5

#### Storage and Safety

- Store in a cool, dry location; avoid moist environments
- May cause irritation and some staining 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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