



## RO-59tm88 PTFE

### 1. Description

RO-59tm88 deposits a bonded PTFE coating on aluminum surfaces for high performance lubricity.

RO-59tm88 coatings will support a wide range of lubrication needs where performance properties of hardness, dry-film lubricity, release (non-sticking), endurance and corrosion protection is required.

- Unique bonding properties offer improved lubrication and longer wear ability.
- Meets Mil-A-63576, Type I
- Meets AMS-2482
- Meets ASTM D1894-08
- Functional to 400°F
- Can be applied by immersion or spray.
- Environmentally safe to use.

### 2. Application instructions (See Section 5)

Concentration:	33% by volume
pH:	6.8-7.4
Temperature:	Ambient
Immersion time:	30 seconds - 2 minutes
Cure temperature:	175-200°F

### 3. Conditions for using RO-59tm88

Tank:	Tank must be of stainless steel, polypropylene or PVC.
Water quality:	Deionized
pH adjustments:	Raise with dilute ammonium hydroxide. Lower with dilute sulfuric acid.  Rinse the probe thoroughly after each use, as it may become coated with PTFE.
Agitation:	Mix gently prior to use.
Cleaning:	A clean surface is necessary to ensure proper bonding and functionality of the PTFE coating. A clean metallic surface is indicated by a complete and uniform wetting of the surface by water with no dry spots, beading or streaking of water.
Cosmetics:	Cosmetically acceptable coatings are more likely to form by racking the work in a vertical position to allow drainage.
Dyed work:	Anodized work that has been dyed, should be sealed prior to immersion in PTFE.
Sealed work:	Parts must be allowed to cool to room temperature prior to immersion in PTFE.

#### **4. Solution makeup**

1. Fill tank  $\frac{3}{4}$  full of water.
2. Slowly add the required amount of RO-59tm88 to the water.
3. Add water very slowly to operating level and mix again.

#### **5. Typical application cycle**

1. Parts must be cool, completely clean and water-break free prior to immersion in RO-59tm88.
2. Dip the work in RO-59tm88 for 30 seconds - 2 minutes.
3. Remove the work and allow to air dry, then place in oven or hot room at 175-200°F for 30 minutes.

Multiple coating thickness:

A second coating to improve wear resistance is done by application + quick air dry (20-30 minutes) for the first coating, followed by reapplication + air dry (minutes) and placed in oven or hot room 175-200°F for 30 minutes.

#### **6. Titration procedure**

There is no Analytical procedure for concentration level.  
Control by adding back 33% by volume of RO-59tm88 due to drag out.

#### **7. Storage**

Store in original container in a cool dry location.  
Keep solution away from direct sunlight.  
Maintain solution temperature above 50° and below 100°F.

#### **8. Disclosure**

All information is given under the express conditions that the party receiving it, will makes its own determination of its suitability.

#### **9. Packaging**

5 gallons  
55 gallons

#### **10. Product safety**

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

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