



## RO-59tm8 PTFE

### 1. Description

RO-59tm8 deposits a bonded PTFE coating on aluminum surfaces for dry-film lubricity.

- Firmly bonds to substrate.
- Can be applied by immersion or spray.
- Environmentally safe to use.
- RoHS compliant
- REACH compliant

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

Concentration:	33% by volume
pH:	9.2-12.8
Temperature:	Ambient
Immersion time:	30 seconds - 2 minutes

### 3. Conditions for using RO-59tm8

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 60% full of deionized water.
2. Slowly add the required amount of RO-59tm8 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-59tm8.
2. Dip the work in RO-59tm8 for 30 seconds - 2 minutes.
3. Remove the work and allow to air dry for several hours for proper bonding.

Multiple coating thickness:

A second coating to improve wear resistance and possibly to improve cosmetics is done by application + quick air dry (20-30 minutes) for the first coating, followed by reapplication + air dry (several hours) for proper bonding.

## 6. Titration procedure

There is no analytical procedure for concentration level.  
Control by adding back 33% by volume of RO-59tm8 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°F and below 100°F.

## 8. Disclosure

All information is given under the express conditions that the party receiving it, will make 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 **Safety Data Sheet** for the appropriate health and safety warnings before use.

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