

PMD WHITE BRONZE

CLEAR PASSIVATE

INTRODUCTION

PMD White Bronze Clear Passivate has been formulated to protect white bronze plating from corrosion which could be caused by atmospheric and handling conditions.

BENEFITS

Easy to use.

Economical.

Gives protection against corrosion caused by atmospheric and handling conditions.

SOLUTION MAKE-UP

PMD White Bronze Clear Passivate 10% v/v aqueous.

OPERATING DATA

Concentration	8 - 12% v/v (10% optimum).
Temperature	20 - 30°C.
Time	2 - 5 minutes.
Agitation	Gentle component or solution movement preferred.
Extraction	Recommended.

EQUIPMENT

Tanks	Polypropylene, polyethylene, PVC or stainless steel.
Heaters	PTFE or stainless steel immersion heaters with thermostatic control.

INSTALLATION

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It is essential that tanks to be used for PMD White Bronze Clear Passivate are thoroughly cleaned and leached before any chemistry is introduced.

Contact PMD (UK) Limited Technical Department for appropriate procedure.

1. Fill the clean empty tank with the appropriate volume of deionised water.
2. Add the appropriate volume of PMD White Bronze Clear Passivate and mix thoroughly.
3. Heat to operating temperature.

PROCESS SEQUENCE

1. PMD White Bronze C60 Plate.
2. Drag out rinse.
3. Rinse.
4. Rinse.
5. 2% Phosphoric acid dip.
6. Rinse.
7. Rinse.
8. PMD White Bronze Clear Passivate.
9. Rinse.
10. Rinse.
11. Rinse 50°C.
12. Dry 50°C.

MAINTENANCE AND CONTROL

The solution should be regularly analysed and replenished as necessary.

ANALYSIS METHOD

PMD White Bronze Clear Passivate Concentration.

Reagents

Potassium iodide
10% hydrochloric acid
0.1N sodium thiosulphate (standard volumetric solution)
Iodine indicator solution

Method

1. Pipette a 10ml aliquot of the working solution into a 250ml conical flask.
2. Add 50ml deionised water.

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3. Add 1gm of potassium iodide.
4. Add 10ml of 10% hydrochloric acid.
5. Add a few drops of iodine indicator solution.
6. Titrate to green end point with 0.1N sodium thiosulphate solution.
7. Record titre = t mls.

Calculation

t = % concentration PMD White Bronze Clear Passivate.

Replenishment

For every 1% drop in concentration, add 10ml/L PMD White Bronze Clear Passivate.

SAFETY DATA

ESSENTIAL INFORMATION

This product contains hexavalent chromium. Chromium is a known human carcinogen.

STORAGE

Store in a well ventilated area between 5 and 30°C.

HANDLING PRECAUTIONS

Eye protection to British Standard must be worn and all reasonable precautions taken to avoid contact. (These are UK mandatory requirements.) Wear protective clothing, rubber boots and gloves.

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FIRST AID

<u>Affected eyes</u>	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
<u>Skin splashes</u>	Immediate saturation with excess water including clothing. Remove contaminated clothing and launder before re-use. Obtain medical attention if necessary.
<u>If swallowed</u>	Do not induce vomiting if it has not occurred. Give plenty of water to drink. Obtain medical attention.
<u>If inhaled</u>	Remove to fresh air. Place casualty in sitting position, well supported. Obtain medical attention if necessary.

SPILLAGE

Wear suitable protective clothing. Contain spillage. Flush to chromium effluent treatment with excess water.

DISPOSAL

Run slowly to chromium effluent treatment with excess water.

Alternatively dispose of through an authorised contractor, who must observe local and national regulations. All waste material must be securely contained and clearly labelled.

PRODUCT FAMILIES

The following products or product families are referred to in this data sheet.

<u>Product Name</u>	<u>Product Number</u>
PMD White Bronze C60 Rack	578001
PMD White Bronze C60 Barrel	578004
PMD White Bronze Clear Passivate	577008

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