

PMD (UK) LTD PROCESS DATA

PMD (UK) Ltd, Broad Lane, Coventry, CV5 7AY, England. Telephone 024 7646 6691 Fax 024 7647 3034
Web Site: www.pmdgroup.co.uk Email: sales@pmdgroup.co.uk

Z3BL3-11/03
ISSUE 1
PREV

ZINCOPASS 3 BLUE 3

INTRODUCTION

Zincopass 3 Blue 3 is a single stage trivalent dip process designed to give enhanced corrosion protection and produce a bright, haze-free, blue chromate finish on zinc plate. The process is economical and simple to operate giving high quality results.

BENEFITS

- Provides good corrosion protection
- Easy to control
- Wide operating window
- Does not contain hexavalent chromium

SOLUTION MAKE-UP

Zincopass 3 Blue 3 1 -10% v/v with water

OPERATING DATA

Concentration	1-10%
pH	1.8 – 2.2
Temperature	15-25°C
Immersion Time	20 - 60 seconds
Agitation	Work movement /air
Extraction	Recommended.

EQUIPMENT

Tanks Polypropylene or polyethylene

Caution: Do not use glass or ceramic containers.

INSTALLATION

It is essential that the tanks to be used for Zincopass 3 Blue 3 are thoroughly cleaned and leached before any product is introduced.

If in any doubt as to the cleaning procedure please contact PMD (UK) Limited Technical Department.

1. Half fill tank with clean water.
2. Add required quantity of Zincopass 3 Blue 3.
3. Top up to working level and mix well.
4. The solution is now ready for use.

PROCESS SEQUENCE

1. Zinc plate.
2. Cold water rinse.
3. Cold water rinse.
4. 0.5% v/v nitric acid.
5. Rinse.
6. Zincopass 3 Blue 3.
7. Cold water rinse.
8. Warm water rinse.
9. Dry.

MAINTENANCE AND CONTROL

To maintain the recommended operating range small frequent additions of Zincopass 3 Blue 3 should be made. When additions fail to be effective the solution should be discarded and a new passivate made up.

Any components that fall into the passivate solution should be removed immediately. If components are left in solution the bath life will be greatly reduced.

pH should be raised with sodium hydroxide solution or lowered with nitric acid.

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NOTES

Zinc thickness

It is important that a minimum thickness of 5µm zinc plate is present before passivation.

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products are referred to in this data sheet.

<u>Product Name</u>	<u>Product Number</u>
Zincopass 3 Blue 3	237024

Whilst every endeavour has been made to ensure that the information given in this data sheet is correct, PMD (UK) gives no warranty, express or implied, relating to the use or performance of this product.