

# 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

Z6Y-04/02  
ISSUE 2  
PREV 1

# ZINCOPASS 6 YELLOW

## INTRODUCTION

Zincopass 6 Yellow is a single stage dip process designed to produce a full yellow chromate finish on zinc plate. The process is economical and simple to operate giving high quality results.

## BENEFITS

Inhibits tarnishing

Provides good corrosion protection

Easy to control

## SOLUTION MAKE-UP

Zincopass 6 Yellow      0.2-2.0% v/v with water

## OPERATING DATA

Concentration	0.2-2.0% (see notes)
pH	1.4 – 2.5
Temperature	20-30°C
Immersion Time	10 - 45 seconds
Agitation	Work movement preferred
Extraction	Recommended.



## ANALYSIS METHOD

### % Concentration

#### Reagents

Concentrated hydrochloric acid  
10% w/v potassium iodide solution  
0.1N sodium thiosulphate (standard volumetric solution)  
Iodine indicator solution

#### Method

1. Pipette a 10.0ml aliquot of the solution into a 250ml conical flask.
2. Add 50ml DI water.
3. Add 15ml conc. hydrochloric acid
4. Add 15ml 10% potassium iodide solution.
5. Allow to stand for 5 minutes.
6. Titrate with 0.1N sodium thiosulphate until dark brown colour fades.
7. Add a few drops of iodine indicator and continue titration to a clear green end point.
8. Record titre = t mls.

#### Calculation

$t \times 0.074 = \% \text{ concentration Zincopass 6 Yellow}$

#### Replenishment

For every 0.1% required add 1ml/L Zincopass 6 Yellow.

## NOTES

Zinc thickness

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

Zincopass 6 Yellow concentration

For acid zinc plate concentrations of 0.2-0.3% are recommended. For alkaline zinc plate higher concentrations may be used depending on system employed.

Immersion time

Immersion time should be optimised for the required colour. Longer times will give deeper yellow colours.

**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 6 Yellow	237015

---

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.