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AS 1627.6—1994

Australian Standard®

Metal finishing—Preparation and pretreatment of surfaces

Part 6: Chemical conversion treatment of metals

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This Australian Standard was prepared by Committee MT/9, Metal Finishing. It was approved on behalf of the Council of Standards Australia on 28 September 1993 and published on 17 January 1994.

The following interests are represented on Committee MT/9:

Aluminium Development Council

Australasian Institute of Metal Finishing

Australian Chamber of Commerce and Industry

Department of Defence

Metal Trades Industry Association of Australia

Royal Australian Chemical Institute

Telecom Australia

University of Queensland

Additional interests participating in preparation of Standard:

Austroads

Blast Cleaning and Coating Association of Australia

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Part 6: Chemical conversion treatment of metals

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PREFACE

This Standard was prepared under the direction of the Multitechnics Standards Policy Board by the Standards Australia Committee on Metal Finishing to supersede AS 1627.6—1977, *Metal finishing—Preparation and pretreatment of surfaces,* Part 6: *Phosphate treatment of iron and steel surfaces*.

It has been expanded to include phosphate conversion coatings for non-ferrous metals and chromate conversion coatings for aluminium and aluminium alloys.

The Standard is one of a series of Standards covering the preparation and pretreatment of metal surfaces used in metal finishing. Others in the series are as follows:

AS		
1627.0	Part 0:	Method selection guide for preparation and pretreatment of steel surfaces
1627.1	Part 1:	Cleaning using liquid solvents and alkaline solutions
1627.2	Part 2:	Power tool cleaning
1627.3	Part 3:	Flame descaling
1627.4	Part 4:	Abrasive blast cleaning
1627.5	Part 5:	Pickling steel surfaces
1627.7	Part 7:	Hand tool cleaning of metal surfaces
1627.9	Part 9:	Pictorial surface preparation standards for painting steel surfaces
1627.10	Part 10:	Cleaning and preparation of metal surfaces using acid solutions (non-immersion)

During the preparation of this Standard cognizance was taken of the following documents issued by the International Organization for Standardization:

ISO 3892:1980 Conversion coatings on metallic materials—Determination of coating mass per unit area—Gravimetric methods.

ISO 9717:1990 Phosphate conversion coatings for metals—Method of specifying requirements.

ISO 10546:1993 Chemical conversion coatings—Rinsed and non-rinsed chromate conversion coatings on aluminium and aluminium alloys.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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CONTENTS

Page

FOREWORD 4

SECTION 1 SCOPE AND GENERAL
1.1 SCOPE 5
1.2 REFERENCED DOCUMENTS 5
1.3 DEFINITIONS 6
1.4 SAFETY PRECAUTIONS 6
1.5 DISPOSAL OF WASTE SOLUTIONS 7

SECTION 2 PHOSPHATE CONVERSION TREATMENT
2.1 SCOPE OF SECTION 8
2.2 COATING CLASSIFICATION 8
2.3 REQUIREMENTS FOR PHOSPHATE COATINGS 8
2.4 METHODS OF APPLICATION 9

SECTION 3 CHROMATE CONVERSION TREATMENT OF ALUMINIUM AND ALUMINIUM ALLOYS
3.1 SCOPE OF SECTION 13
3.2 COATING CLASSIFICATION 13
3.3 REQUIREMENTS FOR CHROMATE COATINGS 13
3.4 METHODS OF APPLICATION 15

APPENDICES
A PURCHASING GUIDELINES 16
B TEST METHODS FOR THE DETERMINATION OF PHOSPHATE COATING MASS 17
C TEST METHOD FOR DETERMINING THE FREEDOM OF PHOSPHATE COATINGS FROM CORROSIVE RESIDUES 21
D DETERMINATION OF CORROSION RESISTANCE OF PHOSPHATE COATINGS 22
E GUIDANCE ON THE HEAT TREATMENT OF STEEL 24
F DETERMINATION OF CHROMATE COATING MASS ON ALUMINIUM AND ITS ALLOYS 26
G QUALITATIVE TESTING OF THE LAYER COMPOSITION OF CHROMATE COATINGS 28
H CHROMATE TREATMENT SEQUENCE OPTIONS 30

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