

AS 1627.6—1994

Australian Standard[®]

**Metal finishing—Preparation and
pretreatment of surfaces**

**Part 6: Chemical conversion
treatment of metals**

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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This standard was issued in draft form for comment as DR 92179.

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First published as AS CK9.6—1968.
Revised and redesignated AS 1627.6—1977.
Second edition 1994.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 8622 2

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

	<i>Page</i>
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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