

Australian Standard™

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

**Part 9: Pictorial surface preparation  
standards for painting steel surfaces**

This Australian Standard was prepared by Committee MT-009, Metal Finishing. It was approved on behalf of the Council of Standards Australia on 28 February 2002 and published on 25 September 2002.

---

The following interests are represented on Committee MT-009:

Australian Institute of Metal Finishing  
Australian Chamber of Commerce and Industry  
Australian Industry Group  
Department of Defence  
Galvanizers Association of Australia  
Institute of Materials Engineering Australia  
Powder Coaters Association  
The Royal Australian Chemical Institute  
Society of Automotive Engineers—Australasia  
Telstra Corporation

---

#### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Australia web site at [www.standards.com.au](http://www.standards.com.au) and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, The Australian Standard, has a full listing of revisions and amendments published each month.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.com.au](mailto:mail@standards.com.au), or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

---

Australian Standard™

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

**Part 9: Pictorial surface preparation  
standards for painting steel surfaces**

Originated as AS 1627.9—1974.  
Second edition 1989.  
Third edition 2002.

**COPYRIGHT**

© Standards Australia International

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia International Ltd  
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 4412 5

## PREFACE

This Standard was prepared by Standards Australia Committee MT-009, Metal Finishing to supersede AS 1627.9—1989, *Metal finishing—Preparation and pretreatment of surfaces, Part 9: Pictorial surface preparation standards for painting steel surfaces*.

The 1989 edition of this Standard endorsed as an Australian Standard, and included a copy of ISO 8501-1:1988, *Preparation of steel substrates before application of paints and related products—Visual assessment of surface cleaning—Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings*. This is not the case with this edition. Rather, reference is made to ISO 8501-1:1988, so a copy of the ISO Standard is required for the application of this Standard. **Note that users of the 1989 edition of AS 1627.9 may use the copy of ISO 8501-1 included with that Standard.** A copy of ISO 8501-1 may be purchased from Standards Australia.

This Standard is Part 9 of a series of Standards covering the preparation and pretreatment of metal surfaces used in metal finishing. The series comprises the following Parts:

### AS

1627	Metal finishing—Preparation and pretreatment of surfaces
1627.0	Part 0 Method selection guide
1627.1	Part 1: Removal of oil, grease and related contamination
1627.2	Part 2: Power tool cleaning
1627.4	Part 4: Abrasive blast cleaning
1627.5	Part 5: Picking
1627.6	Part 6: Chemical conversion treatment of metals
1627.9	Part 9: Pictorial surface standards for painting steel surfaces

## CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 REFERENCE DOCUMENTS.....	4
3 RUST GRADES.....	5
4 PREPARATION GRADES.....	5
5 PROCEDURE FOR VISUAL ASSESSMENT FOR STEEL SUBSTRATES.....	5

## STANDARDS AUSTRALIA

## Australian Standard

## Metal finishing—Preparation and pretreatment of surfaces

## Part 9: Pictorial surface preparation standards for painting steel surfaces

**1 SCOPE**

This Standard specifies a series of rust grades and preparation grades of steel surfaces by reference to ISO 8501-1:1988.

**2 REFERENCE DOCUMENTS**

The following document is referred to in this Standard:

## ISO

- 8501 Preparation of steel substrates before application of paint and related products—Visual assessment of surface cleanliness
- 8501-1 Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings

References to International Standards in ISO 8501-1 should be replaced by Australian Standards, as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO	AS
8501 Preparation of steel substrates before application of paints and related products—Visual assessment of surface cleanliness	—
8501-2 Part 2: Preparation grades of previously coated steel substrates after localized removal of previous coatings	—
8502 Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness	1627 Metal finishing—Preparation and pretreatment of surfaces 1627.1 Part 1: Removal of oil, grease and related contamination
8503 Preparation of steel substrates before application of paint and related products—Surface roughness characteristics of blast-cleaned steel substrates	—
8504 Preparation of steel substrates before application of paint and related products—Surface preparation methods	1627 Metal finishing—Preparation and pretreatment of surfaces
8504-2 Part 2: Abrasive blast-cleaning	1627.4 Part 4: Abrasive blast cleaning
8504-3 Part 3: Hand and power tool cleaning	1627.2 Part 2: Power tool cleaning



SAI GLOBAL

This is a free 6 page sample. Access the full version online.

The remainder of this document  
is available for purchase online at

**[www.saiglobal.com/shop](http://www.saiglobal.com/shop)**

SAI Global also carries a wide range of publications from a wide variety of Standards Publishers:



Click on the logos to search the database online.