

Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness

**Part 3: Treatment grades of welds, edges and other areas with surface
imperfections (ISO 8501-3:2006, MOD)**



AS 8501.3:2022

This Australian Standard® was prepared by MT-009, Metal Finishing. It was approved on behalf of the Council of Standards Australia on 7 December 2022.

This Standard was published on 23 December 2022.

The following are represented on Committee MT-009:

- Australasian Corrosion Association
- Australasian Institute of Surface Finishing
- Australian Aluminum Council
- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Paint Manufacturers Federation
- Australian Steel Institute
- Bureau of Steel Manufacturers of Australia
- CSIRO
- Engineers Australia
- Galvanizers Association of Australia
- Materials Australia

This Standard was issued in draft form for comment as DR AS 8501.3:2022.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

ISBN 978 1 76139 018 0

Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness

**Part 3: Treatment grades of welds, edges and
other areas with surface imperfections (ISO
8501-3:2006, MOD)**

First published as AS 8501.3:2022.

COPYRIGHT

© ISO 2022 — All rights reserved
© Standards Australia Limited 2022

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, unless otherwise permitted under the Copyright Act 1968 (Cth).

Preface

This Standard was prepared by the Standards Australia Committee MT-009, Metal Finishing.

The objective of this document is to outline treatment grades of welds, edges and other areas on steel surfaces with imperfections. Such imperfections can become visible before and/or after an abrasive blast-cleaning process.

Treatment grades given in this document are to make steel surfaces with imperfections, including welded and fabricated surfaces, suitable for the application of paints and related products.

This document is an adoption with national modifications, and has been reproduced from ISO 8501-3:2006, *Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness — Part 3: Preparation grades of welds, edges and other areas with surface imperfections*.

The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to ISO 8501-3:2006, for the application of this document in Australia.

As this document has been reproduced from an International document, the following applies:

- (a) In the source text “this part of ISO 8501” should read “this document”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

Contents

Preface	ii
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Types of imperfection	1
4 Preparation grades	1
Bibliography	6
Appendix ZZ (normative) Modifications to ISO 8501-3:2006 for Australia	7

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8501-3 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 12, *Preparation of steel substrates before application of paints and related products*.

This second edition cancels and replaces the first edition (ISO 8501-3:2001). The main changes are:

- revision of the description of preparation grade P1 in [Clause 4](#) and the preparation grades for welding spatter and undercut in [Table 1](#);
- replacement of the phrases “as found”, “as welded”, etc., with “no preparation”;
- deletion of Annex A “Correlation between preparation grades and corrosivity categories”.

ISO 8501 consists of the following parts, under the general title *Preparation of steel substrates before application of paints and related products* — *Visual assessment of surface cleanliness*:

- *Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings*
- *Informative Supplement to Part 1: Representative photographic examples of the change of appearance imparted to steel when blast-cleaned with different abrasives*
- *Part 2: Preparation grades of previously coated steel substrates after localized removal of previous coatings*
- *Part 3: Preparation grades of welds, edges and other areas with surface imperfections*
- *Part 4: Initial surface conditions, preparation grades and flash rust grades in connection with high-pressure water jetting*