

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS Z 0313 : 2004

(JACC/JSA)

**Test and assessment of abrasive
blast-cleaned substrates before
application of paints**

ICS 25.220.10; 77.140.01

Reference number : JIS Z 0313 : 2004 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Association of Corrosion Control (JACC)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS Z 0313 : 1998** is replaced with this Standard.

This revision has been made based on **ISO 8501-1 : 1988** *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*, **ISO 8501-1 : 1988/Suppl: 1994** *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*, **ISO 8502-2 : 1992** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 2 : Laboratory determination of chloride on cleaned surfaces*, **ISO 8502-3 : 1992** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 3 : Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method)*, **ISO 8502-4 : 1993** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 4 : Guidance on the estimation of the probability of condensation prior to paint application*, **ISO 8502-5 : 1998** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 5 : Measurement of chloride on steel surfaces prepared for painting (ion detection tube method)*, **ISO 8502-6 : 1995** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 6 : Extraction of soluble contaminants for analysis—The Bresle method*, **ISO 8502-8 : 2001** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 8 : Field method for the refractometric determination of moisture*, **ISO 8502-9 : 1998** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 9 : Field method for the conductometric determination of water-soluble salts*, **ISO 8502-10 : 1999** *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 10 : Field method for the titrimetric determination of water-soluble chloride*, **ISO 8503-2 : 1988** *Preparation of steel substrates before application of paints and related products—Surface roughness characteristics of blast-cleaned steel substrates—Part 2 : Method for the grading of surface profile of abrasive blast-cleaned steel—Comparator procedure*, **ISO 8503-3 : 1988** *Preparation of steel substrates before application of paints and related products—Surface roughness characteristics of blast-cleaned steel substrates—Part 3 : Method for the calibration of ISO surface profile comparators and for the determination of surface profile—Focusing microscope procedure* and **ISO 8503-4 : 1988** *Preparation of steel substrates before application of paints and related products—Surface roughness characteristics of blast-cleaned steel substrates—Part 4 : Method for the calibration of ISO surface profile comparators and for the determination of surface profile—Stylus instrument procedure* for the purposes of making it easier to compare this Standard with International Standards; to prepare Japanese Industrial Standard conforming with International Standards; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 1998-04-20

Date of Revision: 2004-03-20

Date of Public Notice in Official Gazette: 2004-03-22

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Chemical Products

JIS Z 0313:2004, First English edition published in 2004-06

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2004

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

Contents

	Page
Introduction	1
1 Scope	2
2 Normative references	3
3 Definitions	4
4 Visual assessment of cleanliness	4
5 Test and assessment of cleanliness by measuring instrument.....	5
5.1 Saline matter adhered to surface	5
5.2 Determination of moisture adhering to surface	12
5.3 Measurement of dust adhering to surface	14
6 Assessment of possibility of condensation	17
7 Test and assessment of surface roughness	18
8 Recording	22
Annex 1 (normative) Guidance on the estimation of the probability of condensation	23
Annex 2 (informative) Comparison table between JIS and corresponding International Standards	30

Test and assessment of abrasive blast-cleaned substrates before application of paints

Introduction This Japanese Industrial Standard has been prepared based on **ISO 8501-1** : 1988 *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*, **ISO 8501-1** : 1988/Suppl : 1994 *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*, **ISO 8502-2** : 1992 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 2 : Laboratory determination of chloride on cleaned surfaces*, **ISO 8502-3** : 1992 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 3 : Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method)*, **ISO 8502-4** : 1993 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 4 : Guidance on the estimation of the probability of condensation prior to paint application*, **ISO 8502-5** : 1998 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 5 : Measurement of chloride on steel surfaces prepared for painting (ion detection tube method)*, **ISO 8502-6** : 1995 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 6 : Extraction of soluble contaminants for analysis—The Bresle method*, **ISO 8502-8** : 2001 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 8 : Field method for the refractometric determination of moisture*, **ISO 8502-9** : 1998 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 9 : Field method for the conductometric determination of water-soluble salts*, **ISO 8502-10** : 1999 *Preparation of steel substrates before application of paints and related products—Tests for the assessment of surface cleanliness—Part 10 : Field method for the titrimetric determination of water-soluble chloride*, **ISO 8503-2** : 1988 *Preparation of steel substrates before application of paints and related products—Surface roughness characteristics of blast-cleaned steel substrates—Part 2 : Method for the grading of surface profile of abrasive blast-cleaned steel—Comparator procedure*, **ISO 8503-3** : 1988 *Preparation of steel substrates before application of paints and related products—Surface roughness characteristics of blast-cleaned steel substrates—Part 3 : Method for the calibration of ISO surface profile comparators and for the determination of surface profile—Focusing microscope procedure* and **ISO 8503-4** : 1988 *Preparation of steel substrates before application of paints and related products—Surface roughness characteristics of blast-cleaned steel substrates—Part 4 : Method for the calibration of ISO surface profile comparators and for the determination of surface profile—Stylus instrument procedure with modifying some technical contents*.

Portions sidelined or underlined with dots are the matters modified from the original International Standards. The list of modification with its explanation is given in annex 2 (informative)