JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS H 8402 : 2004

(JTSS/JSA)

Test methods of tensile adhesive strength for thermal-sprayed coatings

ICS 25.220.20

Reference number : JIS H 8402 : 2004 (E)

PROTECTED BY COPYRIGHT

Documents
Document Sharing Hub

Provided by IHS
No reproduction or networking permitted without license from IHS
Full document details: JIS H 8402 2004

Licensee=Hong Kong Polytechnic University/9976803100
Not for Resale, 07/29/2014 20:05:15 MDT

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japan Thermal Spraying Society (JTSS)/Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This Standard has been made based on **ISO 14916** : 1999 *Thermal spraying—Determination of tensile adhesive strength* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; 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: 2004-05-20

Date of Public Notice in Official Gazette: 2004-05-20

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Non-Ferrous Metals

JIS H 8402:2004, First English edition published in 2004-09

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. 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

PROTECTED BY COPYRIGHT

Documents
Document Sharing Hub

Provided by IHS
No reproduction or networking permitted without license from IHS
Full document details: JIS H 8402 2004

Licensee=Hong Kong Polytechnic University/9976803100
Not for Resale, 07/29/2014 20:05:15 MDT

Contents

		Page
Introduction		1
1	Scope	1
2	Normative references	1
3	Definitions	1
4	Test piece	1
5	Test method	2
5.1	Summary	2
5.2	Apparatus	2
5.3	Material	3
5.4	Preparation of test pieces	3
5.5	Preparation of test	3
5.6	Operation	4
6	Determination of condition of fracture	4
7	Test report	4
Annex (informative)	Comparison table between JIS and corresponding International Standard	6

PROTECTED BY COPYRIGHT

Documents
Document Sharing Hub

Provided by IHS
No reproduction or networking permitted without license from IHS
Full document details: JIS H 8402 2004

Licensee=Hong Kong Polytechnic University/9976803100
Not for Resale, 07/29/2014 20:05:15 MDT

Test methods of tensile adhesive strength for thermal-sprayed coatings

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 14916** *Thermal spraying—Determination of tensile adhesive strength* published in 1999 by modifying some technical contents.

Portions underlined with dots are the matters modified from the original International Standard. The list of modifications with their explanations is given in annex (informative).

1 Scope This Standard specifies the test method to determine the tensile adhesive strength of thermally sprayed coatings.

Remarks : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

ISO 14916 : 1999 *Thermal spraying—Determination of tensile adhesive strength* (MOD)

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of publication is given to these referred standards, only the edition of the indicated year constitutes the provision of this Standard but the revision and amendment made thereafter do not apply. The normative references without the indication of the year of coming into effect apply only to the most recent edition (including amendments).

JIS B 7721 *Verification and calibration of the force measuring system of the tension/compression testing machines*

Remarks : **ISO 7500-1** : 1999 *Metallic materials—Verification of static uniaxial testing machines—Part 1 : Tension/compression testing machines—Verification and calibration of the force-measuring system* is equivalent to the said standard.

JIS G 3101 *Rolled steels for general structure*

JIS H 8200 *Thermal spraying terms*

3 Definitions For the purposes of this Standard, the definitions given in **JIS H 8200** shall apply.

4 Test piece The test piece shall be as follows:

a) The test piece shall be an actual product itself, or cut out of the product.

PROTECTED BY COPYRIGHT

AVA Documents Document Sharing Hub

Provided by IHS
No reproduction or networking permitted without license from IHS
Full document details: JIS H 8402 2004

Licensee=Hong Kong Polytechnic University/9976803100
Not for Resale, 07/29/2014 20:05:15 MDT