

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS Z 3881 : 2014

(JRJI)

**Standard qualification procedure for gas
pressure welding technique of steel bars
for concrete reinforcement**

ICS 25.160.01

Reference number : JIS Z 3881 : 2014 (E)

PROTECTED BY COPYRIGHT

7 5

Date of Establishment: 1972-03-27

Date of Revision: 2014-06-25

Date of Public Notice in Official Gazette: 2014-06-25

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Welding

JIS Z 3881 : 2014, First English edition published in 2016-05

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2016

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

HN

Contents

		Page
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification, type and targeted reinforcing bar of performance qualification	2
4.1	Classification of performance qualification	2
4.2	Type and targeted reinforcing bar of performance qualification	2
5	Test methods	2
6	Preparation of test pieces	2
6.1	Preparation method of test pieces	2
6.2	Type of test material	3
6.3	Quantity of test materials	3
7	Gases to be used for test	4
8	Gas pressure welding apparatus	4
8.1	Manual gas pressure welding apparatus	4
8.2	Automatic gas pressure welding apparatus	4
8.3	Apparatus for gas pressure welding by lot trimming	4
9	Assessment	4
9.1	Appearance test	4
9.2	Bend test	5
10	Acceptance criteria	7

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry and the Minister of Land, Infrastructure, Transport and Tourism through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Reinforcing Bar Joints Institute (JRJI) 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 3881:2009** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Ministers and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Standard qualification procedure for gas pressure welding technique of steel bars for concrete reinforcement

1 Scope

This Japanese Industrial Standard specifies the standard qualification procedure for gas pressure welding technique of steel bars for concrete reinforcement (hereafter referred to as “reinforcing bars”) specified in JIS G 3112, which are heated with oxygen/gas flame and jointed with mechanical pressure, using manual gas pressure welding, automatic gas pressure welding and gas pressure welding by hot trimming.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 6801 *Manual blowpipes for welding, cutting and heating*

JIS G 3112 *Steel bars for concrete reinforcement*

JIS K 1101 *Oxygen*

JIS K 1902 *Dissolved acetylene*

JIS Z 2248 *Metallic materials — Bend test*

JIS Z 3001-1 *Welding and allied processes — Vocabulary — Part 1 : General*

JIS Z 3001-2 *Welding and allied processes — Vocabulary — Part 2 : Welding processes*

JIS Z 3120 *Method and acceptance criteria of test for gas pressure welded joint of steel bars for concrete reinforcement*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in JIS Z 3001-1, JIS Z 3001-2, JIS Z 3120, and the following apply.

3.1 test material

steel bar for concrete reinforcement, prepared for a given test

3.2 test piece

material subjected to gas pressure welding, or pressure weld subjected to hot trimming

3.3 bend test piece

pressure weld processed to the specified dimensions or that subjected to hot trimming