

### INDUSTRIAL STANDARD

Translated and Published by Japanese Standards Association

# $JIS \; Z \; 3801^{\,:\, 2018}$

## (JWES)

# Standard qualification test and acceptance requirements for manual welding technique

ICS 25.160.01 Reference number : JIS Z 3801 : 2018 (E)

This is a preview. Click here to purchase the full publication.

Z 3801 : 2018

Date of Establishment: 1954-09-18 Date of Revision: 2018-12-20 Date of Public Notice in Official Gazette: 2018-12-20 Investigated by: Japanese Industrial Standards Committee Standards Board for ISO area Technical Committee on Metal and Inorganic Materials

JIS Z 3801 : 2018, First English edition published in 2019-05

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 2019

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

ΗN

This is a preview. Click here to purchase the full publication.

#### Contents

### Page

1	Scope		
2	Normative references ······1		
-	Terms and definitions		
4	Classification of qualification test for welding technique		
5	Welding process ···································		
$6 \\ 6.1 \\ 6.2$	Welding position ····································		
7	Shape and dimensions of test materials, and test specimen sampling		
	position 5		
$7.1 \\ 7.2$	Test material of plates ······5 Test material of pipes ·····5		
8	Steel products to be used in test		
8.1	Test material of plates ······12		
8.2	Test material of pipes ······12		
8.3	Backing metal ······12		
9	Welding consumables to be used in test12		
9.1	Shielded metal arc welding ······12 TIG welding ······12		
9.2 9.3	Gas welding ····································		
10	Gases to be used in test ······13		
10.1	TIG welding ······13		
10.2	Gas welding ······13		
11	Welding machines to be used in test ······13		
12	Welding conditions ······13		
12.1	General ·····13		
12.2	Welding of plates ······13		
$12.3 \\ 12.4$	Welding of pipes ······13 Combined welding ······14		
$13\\13.1$	Assessment ······14 General ·····14		
13.2	Appearance test ·······14		
13.3	Bend test ······14		
14	Acceptance/rejection criteria ·····19		

This is a preview. Click here to purchase the full publication.

14.1	General		
14.2	Evaluation criteria for appearance test19		
14.3	Evaluation criter	ia for bend test ······19	
Annex	A (informative)	Example of evaluation criteria for appearance test20	