

---

---

**Non-destructive testing of welds —  
Visual testing of fusion-welded joints**

*Contrôle non destructif des assemblages soudés — Contrôle visuel des  
assemblages soudés par fusion*



Reference number  
ISO 17637:2016(E)



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Test conditions and equipment</b> .....	<b>1</b>
<b>5 Personnel qualification</b> .....	<b>2</b>
<b>6 Visual testing</b> .....	<b>2</b>
6.1 General.....	2
6.2 Visual testing of joint preparation.....	2
6.3 Visual testing during welding.....	2
6.4 Visual testing of the finished weld.....	3
6.4.1 General.....	3
6.4.2 Cleaning and dressing.....	3
6.4.3 Profile and dimensions.....	3
6.4.4 Weld root and surfaces.....	3
6.4.5 Post-weld heat treatment.....	4
6.5 Visual testing of repaired welds.....	4
6.5.1 General.....	4
6.5.2 Partially removed weld.....	4
6.5.3 Completely removed weld.....	4
<b>7 Test records</b> .....	<b>4</b>
<b>Annex A (informative) Examples of test equipment</b> .....	<b>6</b>
<b>Bibliography</b> .....	<b>10</b>