

This is a preview of "ISO 3690:2012". [Click here to purchase the full version from the ANSI store.](#)

Third edition
2012-03-15

Corrected version
2012-05-01

Welding and allied processes — Determination of hydrogen content in arc weld metal

*Soudage et techniques connexes — Détermination de la teneur en
hydrogène dans le métal fondu pour le soudage à l'arc*



Reference number
ISO 3690:2012(E)

© ISO 2012

This is a preview of "ISO 3690:2012". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 3690:2012". [Click here to purchase the full version from the ANSI store.](#)

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Principle	1
4 Test procedures	2
4.1 Production of weld specimens	2
4.2 Welding procedures for the production of weld specimens	6
4.3 Measurement of hydrogen in the test weld	13
4.4 Measurement of total hydrogen content in the weld metal — Rapid methods	19
4.5 Rounding procedure	19
Annex A (informative) Recommendations and restrictions in regard to older methods of measurement using mercury	20
Annex B (informative) Recommendations and restrictions in regard to older methods of measurement using glycerin	21
Annex C (informative) Accuracy and reproducibility	22
Bibliography	23

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3690 was prepared by the International Institute of Welding, recognized as an international standardizing body in the field of welding in accordance with Council Resolution 42/1999.

This third edition cancels and replaces the second edition (ISO 3690:2000), which has been technically revised.

Requests for official interpretations of any aspect of this International Standard should be directed to the ISO Central Secretariat, who will forward them to the IIW Secretariat for an official response.

This corrected version of ISO 3690:2012 incorporates the following corrections:

- a) to comply with ISO quality documentation, references to Commission II and to TC 44/SC 3 have been removed from paragraph 5 of this foreword;
- b) the quality of Figures 1 and 3 has been improved in terms of resolution and presentation.