

INTERNATIONAL STANDARD

ISO 10461

Second edition
2005-02-15

Gas cylinders — Seamless aluminium-alloy gas cylinders — Periodic inspection and testing

*Bouteilles à gaz — Bouteilles à gaz sans soudure en alliage
d'aluminium — Contrôles et essais périodiques*



Reference number
ISO 10461:2005(E)

© ISO 2005

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2005

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 0111
Fax + 41 22 749 0947
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Intervals between periodic inspections and tests	1
4 List of procedures for periodic inspections and tests	2
5 Identification of cylinder and preparation for inspections and tests	2
6 Depressurization and de-valving procedures	2
7 External visual inspection	3
8 Check of internal condition	4
9 Supplementary tests	4
10 Inspection of cylinder neck	5
11 Pressure test or ultrasonic examination	5
12 Inspection of valve and other accessories	15
13 Cylinder repairs	15
14 Final operations	15
15 Rejection and rendering cylinders unserviceable	18
Annex A (informative) Intervals between periodic inspections and tests	19
Annex B (normative) Description and evaluation of defects and conditions for rejection of seamless aluminium-alloy gas cylinders at time of visual inspection	20
Annex C (normative) Procedure to be adopted when de-valving and/or when it is suspected that a cylinder valve is obstructed	25
Annex D (informative) Cleaning of aluminium-alloy gas cylinders	28
Annex E (informative) Volumetric expansion testing of gas cylinder	29
Annex F (informative) Inspection and maintenance of valves and their junctions: recommended procedures	37
Annex G (informative) Test date rings for gas cylinders	38
Bibliography	39