

This is a preview of "ISO 9012:2008". [Click here to purchase the full version from the ANSI store.](#)

Third edition  
2008-02-15

---

---

## Gas welding equipment — Air-aspirated hand blowpipes — Specifications and tests

*Équipement de soudage aux gaz — Chalumeaux manuels aéro-gaz à air aspiré — Spécifications et essais*



Reference number  
ISO 9012:2008(E)

© ISO 2008

This is a preview of "ISO 9012:2008". [Click here to purchase the full version from the ANSI store.](#)

**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.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2008

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](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 9012:2008". [Click here to purchase the full version from the ANSI store.](#)

## Contents

Page

Foreword.....	iv
<b>1</b> <b>Scope</b> .....	<b>1</b>
<b>2</b> <b>Normative references</b> .....	<b>1</b>
<b>3</b> <b>Terms and definitions</b> .....	<b>1</b>
<b>4</b> <b>Main types of aspiration</b> .....	<b>2</b>
<b>5</b> <b>Description of components</b> .....	<b>5</b>
5.1 <b>Shank or handle</b> .....	<b>5</b>
5.2 <b>Attachment</b> .....	<b>5</b>
5.3 <b>Self-closing on/off valve control</b> .....	<b>6</b>
5.4 <b>Device to prevent inadvertent operation</b> .....	<b>6</b>
<b>6</b> <b>Requirements</b> .....	<b>6</b>
6.1 <b>General</b> .....	<b>6</b>
6.2 <b>Materials</b> .....	<b>6</b>
6.3 <b>Valves</b> .....	<b>6</b>
6.4 <b>Shank</b> .....	<b>6</b>
6.5 <b>Hose connection</b> .....	<b>7</b>
6.6 <b>Gas tightness</b> .....	<b>7</b>
6.7 <b>Gas-flow rate</b> .....	<b>7</b>
6.8 <b>Safety against sustained backfiring and blowing-off of the flame</b> .....	<b>7</b>
6.9 <b>Flame adjustment</b> .....	<b>7</b>
6.10 <b>Stability in air currents</b> .....	<b>7</b>
6.11 <b>Ignition</b> .....	<b>8</b>
<b>7</b> <b>Tests</b> .....	<b>8</b>
7.1 <b>General</b> .....	<b>8</b>
7.2 <b>General checks</b> .....	<b>8</b>
7.3 <b>Operational tests</b> .....	<b>8</b>
7.4 <b>Shank-overheating tests</b> .....	<b>8</b>
7.5 <b>Gas tightness</b> .....	<b>8</b>
7.6 <b>Valve endurance test</b> .....	<b>9</b>
7.7 <b>Checking gas-flow rates</b> .....	<b>9</b>
7.8 <b>Safety against sustained backfire and blowing-off of the flame</b> .....	<b>9</b>
7.9 <b>Stability in air currents</b> .....	<b>9</b>
7.10 <b>Verification of the device against inadvertent operation</b> .....	<b>9</b>
<b>8</b> <b>Marking</b> .....	<b>9</b>
8.1 <b>General</b> .....	<b>9</b>
8.2 <b>Marking of the shank</b> .....	<b>10</b>
8.3 <b>Marking of the attachment</b> .....	<b>10</b>
<b>9</b> <b>Code letters identifying the gas(es) used</b> .....	<b>10</b>
<b>10</b> <b>Instructions for use</b> .....	<b>10</b>
<b>Bibliography</b> .....	<b>12</b>

This is a preview of "ISO 9012:2008". [Click here to purchase the full version from the ANSI store.](#)

## 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 9012 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 8, *Equipment for gas welding, cutting and allied processes*.

This third edition cancels and replaces the second edition (ISO 9012:1998), which has been technically revised.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 8 via your national standards body. A complete listing of these bodies can be found at [www.iso.org](http://www.iso.org).