

---

---

**Light gauge metal containers — Definitions  
and determination of dimensions and  
capacities —**

**Part 3:  
Aerosol cans**

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

*Réipients métalliques légers — Définitions et détermination des  
dimensions et des capacités*

*Partie 3: Boîtiers pour aérosols*

ISO 90-3:2000

<https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>



**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.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 90-3:2000

<https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>

© ISO 2000

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

Printed in Switzerland

**Contents**

Page

Foreword.....	iv
Introduction.....	v
1 Scope .....	1
2 Terms and definitions .....	1
3 Determination of dimensions .....	7
4 Determination of capacities.....	9
5 Tolerances on capacities .....	10
6 Designation .....	11
Annexe A (informative) Dimensions of the top end of three-piece necked-in tinplate cans .....	12
Bibliography .....	13

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 90-3:2000

<https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>

## 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 3.

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 part of ISO 90 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 90-3 was prepared by Technical Committee ISO/TC 52, *Light gauge metal containers*, Subcommittee SC 6, *Aerosol containers*.

This second edition cancels and replaces the first edition (ISO 90-3:1986), which has been technically revised.

ISO 90 consists of the following parts, under the general title *Light gauge metal containers — Definitions and determination of dimensions and capacities*:

- *Part 1: Open-top cans* <https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>
- *Part 2: General use containers*
- *Part 3: Aerosol cans*

NOTE An "open-top can" is a can one end of which is double-seamed after filling. A "general use container" is a container which is sealed after filling with a closure that need not be double-seamed.

Annex A of this International Standard is for information only.

## Introduction

ISO 90 consists of three parts which group definitions, methods of determination of dimensions and capacities, as well as tolerances and designations of rigid containers made of metal with a maximum nominal material thickness of 0,49 mm.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 90-3:2000](https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000)

<https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 90-3:2000

<https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>

# Light gauge metal containers — Definitions and determination of dimensions and capacities —

## Part 3: Aerosol cans

### 1 Scope

This part of ISO 90 defines the diameters, apertures, constructions, shapes and capacities of round, aerosol cans. It specifies methods for determining diameters, gross lidded and brimful capacities. It also gives tolerances on capacity and recommends an international designation.

NOTE A list of standards dealing with materials used for aerosol cans is given in the Bibliography.

## iTeh STANDARD PREVIEW

### 2 Terms and definitions **(standards.iteh.ai)**

For the purposes of this part of ISO 90, the following [link terms](https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000) and definitions apply. The figures given in this clause illustrate the terminology. <https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>

#### 2.1

##### **aerosol can**

rigid can made of light gauge metal with a maximum nominal material thickness of 0,49 mm; non-refillable can intended to contain a product which is dispensed by pre-stored pressure in a controlled manner through a valve

#### 2.2 Heights

##### 2.2.1

##### **body height**

$H_1$

height of the body over the double seams (three piece aerosol cans only)

See Figure 1 a).

##### 2.2.2

##### **overall height**

$H_3$

height of the unclosed container

See Figures 1 a) and 1 b).

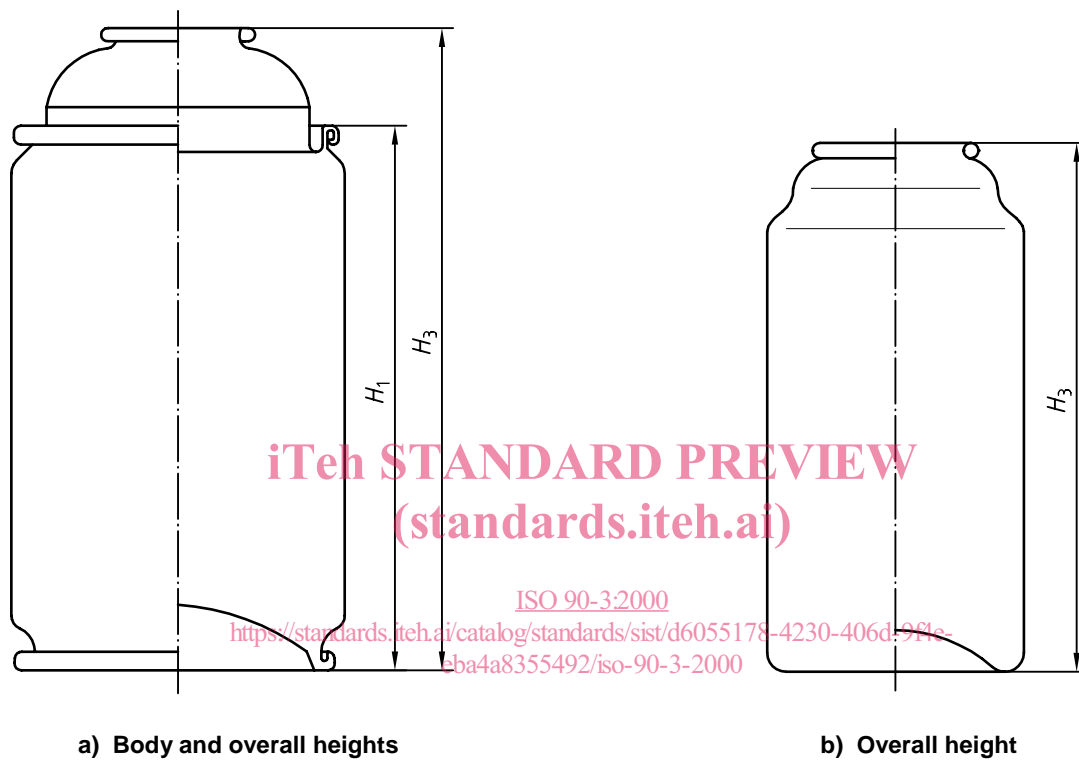


Figure 1 — Heights



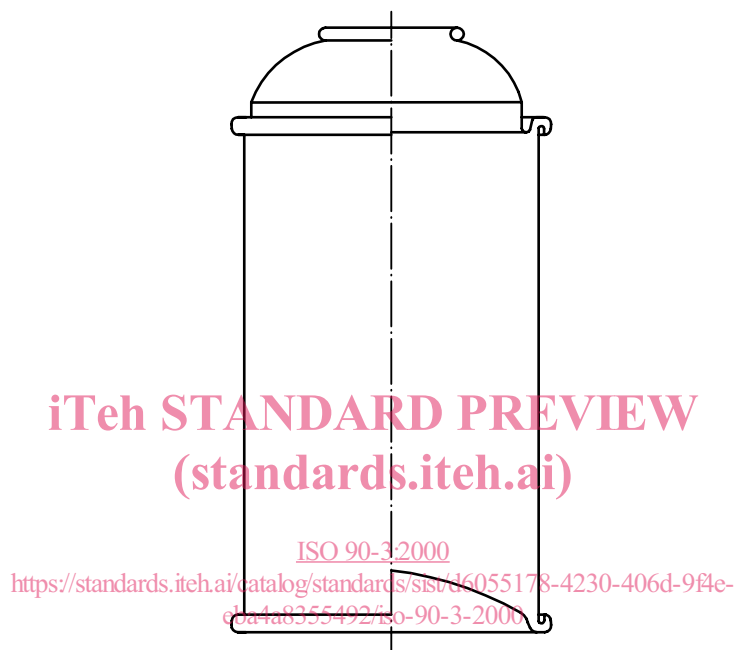
**2.3****aperture**

circular opening designed to be sealed by a valve component of which the valve is located in a valve cup

**2.4 Constructions****2.4.1****three-piece can**

can made from three main components: body, top end and bottom end

See Figure 2.



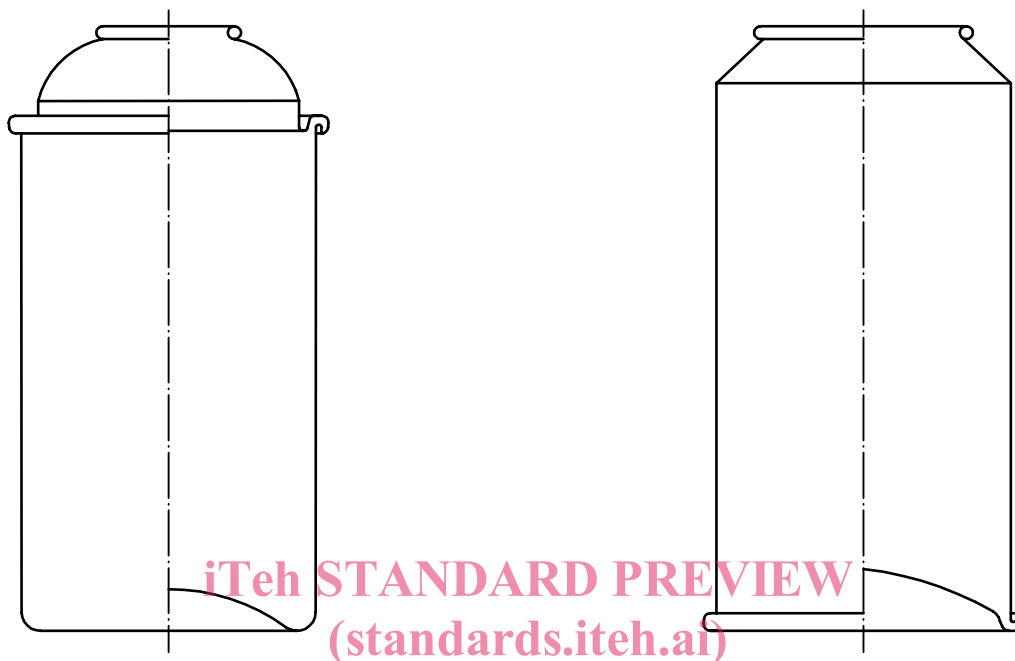
**Figure 2 — Three-piece can**

2.4.2

**two-piece can**

(extruded or drawn and wall-ironed) can made from two main components: the body and top end or the body with bottom end

See Figure 3.



a) Extruded body with bottom (one piece) and top end      b) Drawn and wall-ironed body with shoulder on top (one piece) and bottom end

<https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-914e-eba4a8355492/iso-90-3-2000>

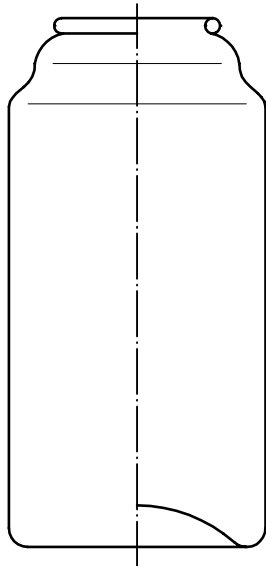
**Figure 3 — Two-piece can**

2.4.3

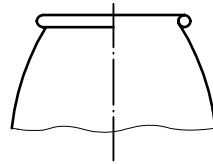
**monobloc can**

extruded or drawn and wall ironed one-piece can for which a variety of shoulders exists

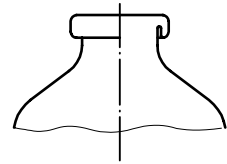
See Figure 4. Typical shoulders are shown in Figures 4 b) to 4 f).



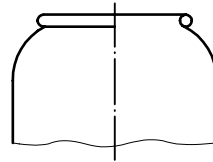
a) Monobloc can



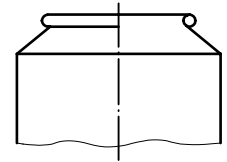
b) Ogival shoulder



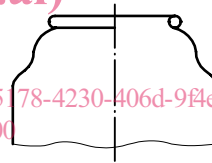
c) Ogival shoulder with reduced opening



d) Spherical shoulder



e) Flat shoulder



f) Shaped shoulder

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

ISO 90-3:2000  
<https://standards.iteh.ai/catalog/standards/sist/d6055178-4230-406d-9f4e-eba4a8355492/iso-90-3-2000>

**Figure 4 — Monobloc can**