

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

Part 1: Open-top cans

The European Standard EN ISO 90-1:1999 has the status of a British Standard

ICS 55.120

National foreword

This British Standard is the English language version of EN ISO 90-1:1999. It is identical with ISO 90-1:1997. It supersedes BS EN 20090-1:1993 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee PKW/2, Primary packaging, to Subcommittee PKW/2/2, Metal packaging, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

Attention is drawn to the fact that CEN and CENELEC Standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii to iv, pages 1 to 17 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard, having been prepared under the direction of the Consumer Products and Services Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 September 1999

© BSI 09-1999

ISBN 0 580 32972 0

Amendments issued since publication

Amd. No.	Date	Comments

English version

Light gauge metal containers - Definitions and determination of
dimensions and capacities - Part 1: Open-top cans (ISO 90-
1:1997)

Réipients métalliques légers - Définitions et détermination
des dimensions et des capacités - Partie 1: Boîtes serties
(ISO 90-1:1997)

Verpackungen aus Feinstblech - Begriffe und Verfahren zur
Bestimmung von Abmessungen und Volumen - Teil 1:
Falzdeckeldosen (ISO 90-1:1997)

This European Standard was approved by CEN on 5 May 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 52 "Light gauge metal containers" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard replaces EN 20090-1:1992.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 1999, and conflicting national standards shall be withdrawn at the latest by December 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 90-1:1997 as been approved by CEN as a European Standard without any modification.

INTERNATIONAL STANDARD

**ISO
90-1**

Second edition
1997-07-01

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

Part 1: Open-top cans

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

Partie 1: Boîtes serties



Reference number
ISO 90-1:1997(E)



Documents
Document Sharing Hub

Contents

Page

1	Scope.....	1
2	Definitions	1
3	Determination of dimensions	7
4	Determination of gross lidded capacity, <i>C</i>	9
5	Tolerances on capacities	11
6	Designation.....	12

Annexes

A	Measurement of height of open-top cans	13
B	Determination of gross lidded capacity, <i>C</i> (cans filled with product)	14
C	Bibliography	17

Descriptors: packaging, metal packaging, containers, definitions, tests, determination, dimensions, cross sections, capacity, designation.

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.

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.

International Standard ISO 90-1 was prepared by Technical Committee ISO/TC 52, *Light gauge metal containers*, Subcommittee SC 4, *Open-top containers*.

This second edition cancels and replaces the first edition (ISO 90-1:1986), 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*
- *Part 2: General use containers*
- *Part 3: Aerosol cans*

Annexes A, B and C of this part of ISO 90 are for information only.

Introduction

ISO 90 consists of three parts which group definitions, methods for 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.

This part of ISO 90 covers open-top cans as defined in 2.1 and is applicable to both round and non-round cans.

Diameters for round open-top cans (beverage cans excluded) are specified in ISO 1361.