
INTERNATIONAL STANDARD



3004 / I

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**Hermetically sealed metal containers for food and drinks —
Part I : Round open-top general purpose food cans**

*Réipients métalliques étanches pour denrées alimentaires et boissons —
Partie I : Boîtes à conserves alimentaires, rondes, serties pour usage général*

Second edition — 1979-02-01
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UDC 621.798.1 : 672.46

Ref. No. ISO 3004/I-1979 (E)

Descriptors : cans, metal packages, preserved food, dimensions, capacity, dimensional tolerances.

Price based on 2 pages

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3004/I was developed by Technical Committee ISO/TC 52, *Metal containers*, and was circulated to the member bodies in January 1978.

It has been approved by the member bodies of the following countries :

Australia	India	Sweden
Austria	Israel	Switzerland
Belgium	Italy	Turkey
Czechoslovakia	Mexico	United Kingdom
Denmark	Netherlands	U.S.A.
Finland	New Zealand	Yugoslavia
France	Romania	
Germany, F. R.	South Africa, Rep. of	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Canada
Poland

ISO 3004/I cancels and replaces ISO 3004-1974.

Hermetically sealed metal containers for food and drinks — Part I : Round open-top general purpose food cans

0 INTRODUCTION

Grouping of hermetically sealed metal containers for food and drinks :

- Part I : Round open-top general purpose food cans.
- Part II : Food cans for meat and products containing meat, for human consumption.
- Part III : Cans for drinks.
- Part IV : Cans for edible oil.
- Part V : Food cans for fish and other fish products.

NOTE — Cans grouped under parts II, III, IV and V are described in the relevant documents.

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a recommended range of capacities with related diameters, in accordance with ISO 1361 for round open-top general purpose food cans, excluding "à décollage" and vent-hole cans. The term

"general purpose food cans" excludes not only cans for meat, drinks, oil and fish (which are covered in parts II, III, IV and V of this International Standard) but also cans for milk and fish and other fishery products for which a special International Standard has been developed.

Cans for pet-foods are covered by this International Standard.

All can measurements in this International Standard are given in accordance with the provisions of ISO 90.

2 REFERENCES

ISO 90, *Hermetically sealed metal containers for food and drinks — Specifications.*

ISO 1361, *Hermetically sealed metal containers for food and drinks — Internal diameters of round cans.*

3 CAPACITIES AND DIAMETERS

See the table on page 2.

TABLE — Capacities and diameters of general purpose food cans

Nominal capacity ml	Upper and lower limits for capacity (resulting from the maximum permissible error as described in ISO 90) ml	Nominal diameter ¹⁾ mm	Nominal capacity ml	Upper and lower limits for capacity (resulting from the maximum permissible error as described in ISO 90) ml	Nominal diameter ¹⁾ mm
53 71	50 – 56 67 – 75	52	446	435 – 457	65 73 ⁴⁾ 83 ²⁾
106	102 – 110	52 63	475	463 – 487	99
125	120 – 130	73	492	480 – 504	73 78
142	136 – 148	52	580	567 – 593	73 83
156	150 – 162	65	684	670 – 698	105
170 198	164 – 176 192 – 204	52	720	706 – 734	99
212	206 – 218	52 63 73 ⁴⁾	850	833 – 867	99 127
228	221 – 235	73 ⁴⁾	1 062	1 042 – 1 082	99 105 153
236	229 – 243	65	1 455	1 433 – 1 477	99 105
247 ²⁾	240 – 254	83	1 700	1 674 – 1 726	99 127 153
283	275 – 291	83	2 650	2 620 – 2 680	153
314	306 – 322	65 99	3 100	3 069 – 3 131	153
340	331 – 349	52 65	4 250	4 207 – 4 293	153
390	380 – 400	65	10 200	10 098 – 10 302	230
403	393 – 413	73			
425	414 – 436	73 ⁴⁾ 83 ³⁾ 99			

1) For related internal body diameters see ISO 1361, table 1.

2) This can should be used for pineapple only.

3) This can should not be used for pineapple.

4) Further consideration will be given to the can sizes listed below, where in each case the pairs of sizes are very close together.

212 ml on 73 mm diameter

228 ml on 73 mm diameter

425 ml on 73 mm diameter

446 ml on 73 mm diameter



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Hermetically sealed metal containers for food and drinks — Part 1 : Round open-top general purpose food cans AMENDMENT 1

Amendment 1 to International Standard ISO 3004/1-1979 was developed by Technical Committee ISO/TC 52, *Light metal containers*, and was circulated to the member bodies in March 1980.

It has been approved by the member bodies of the following countries :

- | | | |
|---------------------|----------------|-----------------------|
| Australia | Germany, F. R. | Romania |
| Belgium | India | South Africa, Rep. of |
| Canada | Italy | Spain |
| Czechoslovakia | Korea, Rep. of | Sweden |
| Denmark | Netherlands | USA |
| Egypt, Arab Rep. of | Norway | Yugoslavia |
| France | Poland | |

The member body of the following country expressed disapproval of the document on technical grounds :

United Kingdom

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Add the following can sizes in the table "Capacities and diameters of general purpose food cans" :

Nominal capacity ml	Upper and lower limits for capacity (resulting from the maximum permissible error as described in ISO 90)	Nominal diameter mm
	ml	
125	120 — 130	65
212	206 — 218	83 ⁵⁾
636	623 — 649	99 ⁵⁾
684	670 — 698	83
720	706 — 734	83 ⁵⁾
1 275	1 255 — 1 295	99 ⁵⁾

5) This can should be used for pet foods only.

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