
International Standard



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**Hermetically sealed metal containers for food and drinks —
Part 3 : Cans for drinks**

Réipients métalliques étanches pour denrées alimentaires et boissons — Partie 3 : Boîtes pour boissons

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Foreword

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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 3004/3 was developed by Technical Committee ISO/TC 52, *Light metal containers*, and was circulated to the member bodies in March 1980.

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No member body expressed disapproval of the document.

Hermetically sealed metal containers for food and drinks —

Part 3 : Cans for drinks

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0 Introduction

Grouping of hermetically sealed metal containers for food and drinks :

- Part 1 : Round open-top general purpose food cans.
- Part 2 : Food cans for meat and products containing meat for human consumption.
- Part 3 : Cans for drinks.
- Part 4 : Cans for edible oils.
- Part 5 : Food cans for fish and other fishery products.

NOTE — Cans grouped under parts 1, 2, 4 and 5 are described in the relevant documents.

1 Scope and field of application

Drinks are divided into two types :

- a) carbonated drinks;
- b) noncarbonated drinks.

Carbonated drinks include all carbonated drinks.

Noncarbonated drinks include noncarbonated drinks ready for use except :

- milk and drinks with milk;
- concentrated products;
- syrups.

This part of ISO 3004 specifies :

- a) for round cans for carbonated drinks a recommended range of filling volumes with related diameters;
- b) for round cans for noncarbonated drinks a recommended range of capacities with related diameters.

All can measurements in this part of ISO 3004 are given in accordance with the provisions of ISO 90.

2 References

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

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

3 Capacities and diameters

See tables 1 and 2.

3.1 Cans for carbonated drinks

Table 1 — Filling volumes and related diameters of round cans for carbonated drinks

Filling volume ml	Nominal diameter mm	Neck diameter mm		
		Straight-walled cans	Necked-in- cans	Deviation
200	52 ¹⁾	52,6		± 0,3 for all diameters
200	60	59,9	57,0	
250	60	59,9	57,0	
250	65	65,4	62,5	
275	65	65,4	62,5	
296	60	59,9	57,0	
330	65	65,4	62,5	
341	65	65,4	62,5	
355	65	65,4	62,5	
355	63		59,9	
375	65	65,4	62,5	
455	65	65,4	62,5	
473	65	65,4	62,5	
500	65	65,4	62,5	
500	68		65,4	
750	83	83,3		
1 000	83	83,3		

1) If specifications in ISO 90 and ISO 1361, were strictly applied, this diameter should be 53 mm but because the tolerances for carbonated drinks cans are subject to review, this diameter is given as 52 mm.

3.2 Cans for noncarbonated drinks

NOTE — The suggested filling volume for each nominal capacity is given as an indicative value. It should not be considered as a standard characteristic.

Table 2 — Capacities and related diameters of round cans for noncarbonated drinks

Nominal capacity ml	Upper and lower limits for capacity (resulting from the maximum permissible error as described in ISO 90) ml	Nominal diameter mm	Suggested filling volume ml
142	136 — 148	52	125
170	164 — 176	52	156
198	192 — 204	52	180
212	206 — 218	52	200
275	268 — 283	52 — 60 — 65	250
355	346 — 364	65	330
390	380 — 400	65	355
403	393 — 413	73	375
425	414 — 436	73 ¹⁾	400
446	435 — 457	73 ¹⁾ — 83 ²⁾	415
517	504 — 530	65	475
580	567 — 593	83	530
752	737 — 767	83	710
825	809 — 841	83	750
850	833 — 867	99	800
1 062	1 042 — 1 082	99 — 105	1 000
1 455	1 433 — 1 477	105	1 400
1 590	1 566 — 1 614	105	1 500
2 160	2 130 — 2 190	105	2 000
4 250	4 207 — 4 293	153	4 000

- 1) Further consideration will be given to these can sizes which are very close together.
- 2) This can should be used for pineapple juice only.