International Standard ISO 3004/3

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Light gauge metal containers — Capacities and related cross-sections — Part 3: Open-top cans for drinks

Récipients métalliques légers — Capacités et sections transversales associées — Partie 3: Boîtes serties pour boissons

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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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3004/3 was prepared by Technical Committee ISO/TC 52, *Light gauge metal containers.*

This second edition cancels and replaces the first edition (ISO 3004/3-1981), of which it constitutes a technical revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Light gauge metal containers — Capacities and related cross-sections — Part 3: Open-top cans for drinks

0 Introduction

Light gauge metal open-top containers for food and drinks, covered by ISO 3004, are grouped as follows:

Part 1: Open-top cans for general food.

Part 2: Open-top cans for meat and products containing meat for human consumption.

Part 3: Open-top cans for drinks.

Part 4: Open-top cans for edible oil.

Part 5: Open-top cans for fish and other fishery products. [1)]

Part 6: Open-top cans for milk.

Vent-hole cans for milk are covered in ISO/TR 8610, *Light gauge metal containers — Round vent-hole cans with soldered ends for milk and milk products — Capacities and related diameters.*

1 Scope and field of application

This part of ISO 3004 lays down:

a) a recommended range of filling volumes with related diameters for round cans for carbonated drinks;

b) a recommended range of capacities with related diameters for round cans for non-carbonated drinks.

Carbonated drinks include all carbonated drinks.

Non-carbonated drinks include non-carbonated drinks ready for use except

— milk and drinks with milk;

— concentrated products;

— syrups.

All can measurements in this part of ISO 3004 are given in accordance with the requirements laid down in ISO 90/1.

2 References

ISO 90/1, *Light gauge metal containers — Definitions and determination methods for dimensions and capacities — Part 1: Open-top cans.*

ISO 1361, *Light gauge metal containers — Open-top cans — Round cans — Internal diameters.*

1) At present at the stage of draft. (Revision of ISO/TR 7423-1982 and ISO/TR 7670-1982.)

3 Capacities and related cross-sections

3.1 Cans for carbonated drinks

Table 1 — Filling volumes and related diameters of round cans

Nominal filling volume ml	Nominal diameter mm	Opening diameter mm		
		Straight-walled cans	Necked-in cans	Tolerance
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	
355	65	65,4	62,5	
355	63		59,9	
375	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 90/1 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 non-carbonated drinks

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

Table 2 — Gross lidded capacities and related diameters of round cans

Nominal gross lidded capacity ml	Tolerance limits on capacity [1] 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	267 – 283	52 60 65	250
355	346 – 364	65	330
390	380 – 400	65	355
403	393 – 413	73	375
425	414 – 436	73 [2]	400
446	435 – 457	73 [2] 83 [3]	415
580	567 – 593	83	530
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
2 160	2 130 – 2 190	105	2 000
4 250	4 207 – 4 293	153	4 000

1) In conformity with ISO 90/1, these tolerances define the limits of acceptable deviation resulting from variations in can design and manufacture.

2) Further consideration will be given to these can sizes which are very close together.

3) This can should be used for pineapple juice only.