
**General use light gauge metal containers —
Nominal filling volumes of round cylindrical
and tapered containers of up to 40 000 ml**

*Réipients métalliques légers à usage général — Volumes nominaux de
remplissage des réipients ronds cylindriques et tronconiques de volume
inférieur ou égal à 40 000 ml*



Reference number
ISO 10193:2000(E)

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Foreword

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

International Standard ISO 10193 was prepared by Technical Committee ISO/TC 52, *Light gauge metal containers*, Subcommittee SC 5, *General use containers*.

This first edition of ISO 10193 cancels and replaces both ISO/TR 10193:1989 and ISO 11944:1993 which have been technically revised.

In comparison with the ISO/TR 10193 and with ISO 11944, this International Standard gives a reduced number of filling volumes and as this standardization concerns containers up to 40 000 ml, nominal diameters have been added for containers having a filling volume > 10 000 ml.

Annex A of this International Standard is for information only and gives the recommended nominal diameters for each nominal filling volume of the containers concerned.

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General use light gauge metal containers — Nominal filling volumes of round cylindrical and tapered containers of up to 40 000 ml

1 Scope

This International Standard specifies a range of nominal filling volumes in common use for round cylindrical and tapered general use containers of up to 40 000 ml volumetric capacity, metal thickness not exceeding 0,49 mm nominal.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 90-2, *Light gauge metal containers — Definitions and determination of dimensions and capacities — Part 2: General use containers.*

3 Nominal filling volumes

Nominal filling volumes for round cylindrical and tapered general use metal containers of up to 40 000 ml shall be as listed in Table 1.

Table 1 — Nominal filling volumes for round cylindrical and tapered general use metal containers

Nominal filling volume
ml
75
100
125
150
200
250
375
500
750
1 000
1 500
2 000
2 500
3 000
4 000
5 000
10 000
12 500
15 000
17 500
20 000
22 500
25 000
30 000
40 000

Annex A (informative)

Recommended nominal diameters of round cylindrical and tapered general use metal containers of up to 40 000 ml

The recommended nominal diameters of round cylindrical and tapered general use metal containers of up to 40 000 ml should be as listed in Table A.1. Those diameters, which are underlined, are strongly recommended. The diameters quoted are as defined in ISO 90-2 and the tolerances of ± 1 mm for diameters up to 153 mm and ± 2 mm for diameters larger than 153 mm are those permitted in calculating the nominal diameters. They are intended to cover different manufacturing methods rather than manufacturing process variability.

Table A.1 — Recommended nominal diameters for round cylindrical and tapered general use metal containers

Nominal filling volume ml	Nominal diameter cylindrical <i>D</i> mm	Nominal diameter tapered mm
75	<u>52</u> - <u>56</u> - <u>73</u>	—
100	<u>52</u> - <u>56</u> - <u>60</u> - <u>65</u> - <u>73</u>	—
125	<u>52</u> - <u>56</u> - <u>60</u> - <u>65</u> - <u>73</u>	—
150	<u>52</u> - <u>56</u> - <u>60</u> - <u>65</u> - <u>73</u> - <u>99</u>	—
200	<u>52</u> - <u>56</u> - <u>60</u> - <u>65</u> - <u>73</u> - <u>83</u> - <u>99</u>	—
250	<u>52</u> - <u>56</u> - <u>60</u> - <u>65</u> - <u>73</u> - <u>83</u> - <u>99</u>	—
375	<u>52</u> - <u>56</u> - <u>65</u> - <u>73</u> - <u>79</u> - <u>83</u> - <u>86</u> - <u>90</u> - <u>99</u> - <u>108</u>	—
500	<u>56</u> - <u>73</u> - <u>79</u> - <u>83</u> - <u>86</u> - <u>90</u> - <u>99</u> - <u>108</u>	—
750	<u>56</u> - <u>73</u> - <u>79</u> - <u>83</u> - <u>86</u> - <u>90</u> - <u>99</u> - <u>108</u> - <u>127</u>	—
1 000	<u>73</u> - <u>79</u> - <u>83</u> - <u>86</u> - <u>90</u> - <u>99</u> - <u>108</u> - <u>127</u> - <u>140</u>	—
1 500	<u>73</u> - <u>86</u> - <u>99</u> - <u>108</u> - <u>127</u> - <u>140</u> - <u>153</u>	—
2 000	<u>99</u> - <u>127</u> - <u>140</u> - <u>153</u> - <u>160</u> - <u>165</u> - <u>171</u> - <u>175</u>	<u>160</u> - <u>165</u> - <u>180</u>
2 500	<u>127</u> - <u>140</u> - <u>153</u> - <u>160</u> - <u>165</u> - <u>171</u>	<u>160</u> - <u>165</u> - <u>168</u> - <u>180</u> - <u>190</u> - <u>198</u>
3 000	<u>153</u> - <u>160</u> - <u>165</u> - <u>171</u> - <u>175</u> - <u>180</u> - <u>190</u>	<u>160</u> - <u>165</u> - <u>168</u> - <u>180</u> - <u>190</u> - <u>198</u>
4 000	<u>153</u> - <u>160</u> - <u>165</u> - <u>171</u> - <u>175</u> - <u>180</u> - <u>190</u>	<u>160</u> - <u>168</u> - <u>180</u> - <u>185</u> - <u>190</u> - <u>198</u>
5 000	<u>153</u> - <u>160</u> - <u>165</u> - <u>171</u> - <u>175</u> - <u>180</u> - <u>190</u> - <u>230</u>	<u>160</u> - <u>168</u> - <u>180</u> - <u>185</u> - <u>190</u> - <u>198</u> - <u>220</u> - <u>230</u> - <u>242</u>
10 000	<u>220</u> - <u>230</u> - <u>286</u> - <u>292</u>	<u>220</u> - <u>230</u> - <u>242</u> - <u>274</u> - <u>286</u> - <u>292</u> - <u>305</u>
12 500	<u>220</u> - <u>230</u> - <u>286</u> - <u>292</u>	<u>230</u> - <u>242</u> - <u>274</u> - <u>286</u> - <u>292</u> - <u>305</u>
15 000	<u>230</u> - <u>280</u> - <u>286</u> - <u>292</u>	<u>242</u> - <u>274</u> - <u>280</u> - <u>286</u> - <u>292</u> - <u>305</u>
17 500	<u>280</u> - <u>286</u> - <u>292</u>	<u>274</u> - <u>280</u> - <u>286</u> - <u>292</u> - <u>305</u>
20 000	<u>280</u> - <u>286</u> - <u>292</u> - <u>305</u>	<u>280</u> - <u>286</u> - <u>292</u> - <u>305</u> - <u>328</u>
22 500	<u>280</u> - <u>286</u> - <u>292</u> - <u>305</u>	<u>280</u> - <u>286</u> - <u>292</u> - <u>305</u> - <u>328</u>
25 000	<u>280</u> - <u>286</u> - <u>292</u> - <u>305</u>	<u>286</u> - <u>292</u> - <u>305</u> - <u>328</u>
30 000	<u>286</u> - <u>292</u> - <u>305</u>	<u>286</u> - <u>292</u> - <u>305</u> - <u>328</u>
40 000	<u>305</u>	<u>292</u> - <u>305</u> - <u>328</u> - <u>380</u>

Tolerance:
 ± 1 mm, for diameters up to 153 mm;
 ± 2 mm, for diameters larger than 153 mm.

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