
**Gas cylinders — Refillable seamless
aluminium alloy gas cylinders —
Design, construction and testing**

AMENDMENT 1

*Bouteilles à gaz — Bouteilles à gaz sans soudure en alliage
d'aluminium destinées à être rechargées — Conception, construction
et essais*

AMENDEMENT 1

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This document was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 3, *Cylinder design*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 23, *Transportable gas cylinders*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Clause 2

Remove ISO 6508-1 from the list and replace it with the following:

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

Remove ISO 7539-6:2011 from the list and replace it with the following:

ISO 7539-6:2018, *Corrosion of metals and alloys — Stress corrosion testing — Part 6: Preparation and use of precracked specimens for tests under constant load or constant displacement*

Remove ISO 10461 from the list and replace it with the following:

ISO 18119, *Gas cylinders — Seamless steel and seamless aluminium-alloy gas cylinders and tubes — Periodic inspection and testing*

10.4.3.5

Replace the entire contents of this subclause with the following:

The fracture shall be considered acceptable only if it conforms to one of the following descriptions:

- a) For gas cylinders of actual wall thickness 13 mm or less:
 - the greater part of the fracture shall be unmistakably longitudinal except for gas cylinders where the ratio of length to outside diameter is less than 3:1;
 - at each end of the fracture, no more than two branches (see L' and L'' in Figure 7) shall be allowed and these shall not extend more than 90° around the circumference on either side of its main part (see d' and d'' in Figure 7);
 - the fracture shall not extend into those parts of the gas cylinder of thickness more than 1,5 the maximum thickness measured halfway up the gas cylinder (for gas cylinders with convex bases, the fracture shall not reach the centre of the gas cylinder base).
- b) For gas cylinders of actual wall thickness over 13 mm, the greater part of the fracture shall be longitudinal.

Clause 11 and Annex F

Replace all references to ISO 7539-6:2011 with ISO 7539-6:2018.

Annex B

Replace all references to ISO 10461 with ISO 18119.