TECHNICAL SPECIFICATION

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Light gauge metal containers — Non-refillable LPG cartridges — General requirements

Récipients métalliques légers — Cartouches de GPL non rechargeables — Exigences générales

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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 52, *Light gauge metal containers*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Light gauge metal containers — Non-refillable LPG cartridges — General requirements

1 Scope

This document specifies minimum requirements for the construction, design, material, performance, test methods and marking at manufacture of non-refillable liquefied petroleum gas (LPG) cartridges.

This document is applicable to non-refillable LPG cartridges which:

a) predominantly comprise butane fuel gas (iso/normal);

b) have a total nominal capacity of up to 250 g net;

c) are intended to deliver gas in the vapour state when either positioned upright or in a horizontal orientation;

d) are used with certain types of gas appliances, e.g. portable gas cookers;

e) are classified as UN 2037, RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable for the transport of dangerous goods.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 1431-1:2012, *Rubber, vulcanized or thermoplastic — Resistance to ozone cracking — Part 1: Static and dynamic strain testing*

ISO 11949, *Cold-reduced tinmill products — Electrolytic tinplate*

ISO 11951, *Cold-reduced tinmill products — Blackplate*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
non-refillable liquefied petroleum gas cartridge
non-refillable LPG cartridge
cartridge only filled up once with LPG

3.2
flange
guide for setting the *non-refillable liquefied petroleum gas cartridges* (3.1) in the gas appliances in the appropriate direction