AS 2278.1:2022

Australian STANDARD®

STANDARDS Australia

Aerosol containers

Part 1: Metal aerosol dispensers of capacity 50 mL to 1 000 mL inclusive

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This Australian Standard ® was prepared by PK-013, Aerosol Containers. It was approved on behalf of the Council of Standards Australia on DD Month 202X.

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The following are represented on Committee PK-013:

Accord Australasia
Aerosol Association of Australia
Australian Industry Group
Australian Institute of Packaging
Australian Paint Manufacturers Federation
Better Regulation Division (Fair Trading, SafeWork NSW, TestSafe)
Canmakers Institute of Australia
Civil Aviation Safety Authority
National Retail Association Australia
Victorian WorkCover Authority (WorkSafe Victoria)

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Revised and redesignated in part as AS 2278.1—2008.
Second edition 2022.

Preface

This Standard was prepared by Standards Australia Committee, PK-013, Aerosol Containers, to supersede AS 2278.1—2008.

This document has been updated to improve comprehensibility, reflect current industry practice, and bring it in line with documents including the *Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)*, the *UN Recommendations on the Transport of Dangerous Goods — Model Regulations*, and the *Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*.

Redundant definitions have been removed; the sampling methodology for empty aerosol dispensers has been revised to better reflect current industry practice and ensure applicability to both aluminium and tinplate steel dispensers; and the wording of the hydraulic test requirements has been revised to improve comprehensibility.

The wording of the section on compatibility with contents has been revised to improve clarity.

A new clause "Selection of empty aerosol dispensers" has been added to Section 3 to ensure that all users of the Standard are aware of the importance of specifying a dispenser that meets its hydraulic test pressure requirements.

The maximum permitted pressure has been amended to allow for a higher maximum pressure in aerosols using non-flammable compressed gas propellants so as to bring the Standard in line with the *UN Recommendations on the Transport of Dangerous Goods — Model Regulations*, and the *European Aerosol Dispensers Directive* and to help facilitate the use of propellants with a reduced environmental footprint.

The exception from water bath testing of food aerosols in previous editions has been removed from this edition as it appeared to give an exemption from legislated requirements in the *Australian Dangerous Goods Code* which the Standard did not have the authority to grant.

The section on the labelling of aerosol dispensers has been significantly revised to bring consumer safety advice, symbols and legibility requirements into line with those detailed in the *UN Recommendations on the Transport of Dangerous Goods — Model Regulations* and the GHS and to improve the clarity of the section on product traceability.

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1 Scope and general

1.1 Scope

This document specifies requirements for materials, construction, filling, performance testing and marking for metal aerosol dispensers from 50 mL to 1 000 mL maximum net capacity, pressurized by liquefied, dissolved or compressed propellant gases.

1.2 Normative references

There are no normative references in this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

1.3 Terms and definitions

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

1.3.1
aerosol dispenser
article consisting of a non-refillable receptacle made of metal, glass or plastics and containing a gas, compressed, liquefied or dissolved under pressure, with or without a liquid, paste or powder, and fitted with a release device allowing the contents to be ejected as solid or liquid particles in suspension in a gas, as a foam, paste or powder or in a liquid state or in a gaseous state

[SOURCE: *UN Recommendations on the Transport of Dangerous Goods — Model Regulations Volume I, Twenty-second revised edition (ST/SG/AC.10/1/Rev.22 (Vol.I))*. Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals, © 2021 United Nations. Reprinted with the permission of the United Nations.]

1.3.2
burst pressure
minimum pressure that causes the unfilled aerosol dispenser container to burst or rupture

[SOURCE: *Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC)*. © 2021 European Union. Reproduced from consolidated text with modifications.]

1.3.3
hydraulic test pressure
pressure to which an unfilled aerosol dispenser container is subjected for 25 s at 20 ±5 °C to test for leakage or permanent distortion of the container

1.3.4
may
indicates the existence of an option