

Australian Standard[®]

Metal aerosol containers

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Aerosol Association of Australia
Australian Federation of Consumer Organizations Inc.
Australian Paint Manufacturers Federation
Australian Retailers Association
Canmakers Institute of Australia
Confederation of Australian Industry
Department of Health
Department of Industrial Relations, N.S.W.
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Metal aerosol containers

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PREFACE

This edition of this standard was prepared by the Association's Committee on Aerosol Containers, under the direction of the Packaging Standards Board to supersede AS 2278—1979, Metal Aerosol Containers—Classification, Filling and Testing.

The revision was undertaken to update the standard, and to modify the Section on marking to be aligned with the latest classification of aerosols.

The following sources may be sought for guidance:

- (a) AS 1216 Classification, Hazard, Identification and Information Systems for Dangerous Goods Part 1—Classification and Class Labels for Dangerous Goods
- (b) The Australian Code for the Transport of Dangerous Goods by Road and Rail.
- (c) International Maritime Dangerous Goods Code.
- (d) ICAO Requirements No. 9284 AN/905.
- (e) IATA Restricted Articles Regulations.
- (f) Uniform Model Deceptive Practices in Packaging Regulations (1980).
- (g) Uniform Model Weights and Measures (Pre-packed Articles) Act (1968) and Regulations (1977).

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
METAL AEROSOL CONTAINERS

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard specifies requirements for non-refillable metal aerosol containers. It classifies aerosol containers according to their pressure rating and size grouping and it specifies pressure test requirements and materials of construction.

Filling, testing and marking requirements for filled containers are also specified.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1517 Tinplate and Blackplate
Part 1—Sheet
Part 2—Coil

AS 1866 Wrought Aluminium and Aluminium Alloy
Extruded, Rod, Bar, Solid and Hollow
Shapes for General Engineering Purposes

AS 2400 SAA Packaging Code
Part 1—Glossary of Packaging Terms

1.3 DEFINITIONS. For the purpose of this standard the definitions given in AS 2400, Part 1, and the following apply:

Aerosol container—a non-refillable container designed to hold its intended contents at a pressure greater than atmospheric, the pressure being provided by means of a propellant, and designed to dispense those contents by means of a valve.

Brimful capacity—the absolute capacity of a container measured to the brim of a filling opening.

Package capacity—the capacity of the container less the capacity taken by the valve and dip-tube in place.

Product—the total contents of a filled aerosol container including the propellant.

1.4 CLASSIFICATION. Metal aerosol containers shall be classified according to their pressure rating and size grouping.

1.4.1 Pressure. Metal aerosol containers shall be rated according to the maximum pressure they are designed to withstand, as follows:

- (a) *Low pressure container*—an aerosol container for products generating a pressure not exceeding 970 kPa at 55°C.
- (b) *Intermediate pressure container*—an aerosol container for products generating a pressure not exceeding 1100 kPa at 55°C.
- (c) *High pressure container*—an aerosol container for products generating a pressure not exceeding 1265 kPa at 55°C.

Unfilled aerosol containers shall not fail pressure test requirements for distortion and bursting at the pressures specified in Table 1.1.

Methods of testing and assessment of failure shall be in accordance with Appendix B.

1.4.2 Size. Aerosol containers shall be grouped according to their internal diameter and brimful capacity, as follows (see also Table 1.1):

- (a) *Group 1*—internal diameter not more than 75 mm and brimful capacity not exceeding 820 mL.
- (b) *Group 2*—internal diameter exceeding 75 mm but not more than 85 mm, and brimful capacity exceeding 820 mL but not more than 1400 mL.

NOTE: Determination of capacity of metal aerosol containers is described in Appendix A.

TABLE 1.1
RATING OF METAL AEROSOL CONTAINERS AND PRESSURE TESTING
REQUIREMENTS FOR UNFILLED CONTAINERS

Group	Pressure rating	Internal diameter d mm	Brimful capacity V mL	Distort pressure* kPa	Burst pressure† kPa
1	Low	$d \leq 75$	$V \leq 820$	1100	1450
	Intermediate	$d \leq 75$	$V \leq 820$	1265	1660
	High	$d \leq 75$	$V \leq 820$	1450	1860
2‡	Low	$75 < d \leq 85$	$820 < V \leq 1400$	1100	1650
	Intermediate	$75 < d \leq 85$	$820 < V \leq 1400$	1240	1930
	High	$75 < d \leq 85$	$820 < V \leq 1400$	1450	2100

* Determined in accordance with Appendix B, Paragraph B2.

† Determined in accordance with Appendix B, Paragraph B3.

‡ Applies to imported sizes only.

Aerosol containers imported for special purposes shall comply with the performance requirements of this standard.