

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

COMPLETE, FILLED TRANSPORT PACKAGES—METHODS OF TEST

AS 2582.7
LOW PRESSURE TEST

PREFACE

This standard was prepared by the Association's Committee on Physical Testing of Packages and Containers under the direction of the Packaging Standards Board to meet a need for testing and assessing the ability of packages to withstand the rigours of handling.

The standard is the seventh in a series of methods for the testing of complete, filled transport packages. The methods will represent the adoption for Australian purposes of a range of ISO International Standards on this subject prepared by ISO Technical Committee 122—Packaging.

This standard is technically identical with—

ISO 2873—1972 Packaging—Complete, filled transport packages—

Part 7: Low pressure test

Attention is drawn to the following related standard:

AS 2400 SAA Packaging Code

Part 1—Glossary of Packaging Terms.

METHOD

1 SCOPE. This standard sets out a method of subjecting complete, filled transport packages to conditions of low air pressure encountered in aircraft.

2 APPLICATION. This method is applicable to complete, filled transport packages which are transported by unpressurized aircraft flying at 3500 m or less and pressurized aircraft flying at any higher altitude.

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

AS 1000 The International System of Units and Its Application

AS 1376 Conversion Factors

AS 2582 Complete, Filled Transport Packages—Methods of Test
2582.2—Conditioning for Testing

4 PRINCIPLE. The complete, filled transport package is introduced into a pressure chamber, and the pressure is then reduced to that obtaining at 3500 m altitude. This pressure is held for a predetermined period after which it is permitted to return to ambient pressure. During this period, if required, the temperature may also be controlled to that obtaining at the same altitude.

The above pressure also approximates to the condition in pressurized aircraft flying at any higher altitude.

5 APPARATUS. Pressure vessel of sufficient size to accept the complete, filled transport package and with pressure and temperature control to comply with the requirements of the procedure in Clause 7.

6 CONDITIONING. The packages shall be conditioned using an appropriate condition or conditions permitted in AS 2582.2.

7 PROCEDURE.

7.1 Pressure Reduction. Place the complete, filled transport package in the pressure vessel and reduce the pressure at a rate not exceeding 15 kPa/min until it reaches 65 kPa (± 5 percent). Maintain this pressure for the predetermined period.