STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
COMPLETE, FILLED TRANSPORT PACKAGES—METHODS OF TEST

AS 2582.3
STACKING, COMPRESSION 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 third 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 2234—1976	Packaging—Complete, filled transport packages— Part 3: Stacking test
ISO 2872—1973	Packaging—Complete, filled transport packages— Part 7: Compression test
ISO 2874—1973	Packaging—Complete, filled transport packages— Part 9: Stacking test using compression tester

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 methods of testing complete, filled transport packages for compression resistance. A superimposed load or a compression tester is used to assess the performance of packages in terms of strength or of the protection offered to the contents when subjected to compressive forces.

2 APPLICATION. The tests may be performed either as a single test to investigate the effects (deformation, creep, collapse or failure) of this hazard or as part of a sequence of tests designed to measure the ability of a package to withstand a distribution system that includes a compression hazard.

The tests may also be used to investigate performance under particular conditions of loading, as for example, when the bottom package in a stack rests on an open-decked pallet. When the compression load is not to be applied over the whole surface of the package which is being tested, appropriate devices should be suitably interposed between the package and the loading platform or the platen of the press in order to simulate the conditions met in practice when applying these compression loads.

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

AS 2582 Complete, Filled Transport Packages—Methods of Test
2582.1—Identification of Parts when Testing
2582.2—Conditioning for Testing

4 PRINCIPLE. The complete, filled transport package is placed on a flat horizontal surface and a load placed upon it or is placed between the platens of a compression tester and compressed. The load, atmospheric conditions, period of time under load and attitude of the package are predetermined. The top-to-bottom or the side-to-side deflection of the package during the test may be measured, if appropriate.

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