STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

COMPLETE, FILLED TRANSPORT PACKAGES—METHODS OF TEST

AS 2582.6
VIBRATION 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 sixth 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 2247—1972 Packaging—Complete, filled transport packages—Part 6: Vibration 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 making a vibration test on a complete, filled transport package.

NOTE: Other methods of vibration testing of packages are being examined and will be considered for inclusion at a later date. There are methods in use which reproduce the vibrating environment, but it would be desirable to have a method more closely representative of the environment and if such a method were developed it would be scientifically preferable to the present procedure.

2 APPLICATION. This test may be used to assess the performance of a package in terms of its strength or the protection that it offers to its contents when it is subjected to vibration. It may be performed either as a single test to investigate the effects of vibration or as part of a sequence of tests designed to measure the ability of a package to withstand a distribution system that includes a vibration hazard.

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
2582.3—Stacking, Compression Test

4 PRINCIPLE. The package is placed on a vibration table and vibrated. The atmospheric conditions, the duration of the test and the attitude of the package are predetermined. When required, a load may be superimposed on the package to simulate conditions at the bottom of a stack of packages.

5 APPARATUS. Vibration table, of sufficient size, rigidity and weight-carrying capacity, supported on a mechanism that will maintain the surface horizontal during vibration. The difference in level between any two points on the surface of the table at rest must not exceed 2 mm.

The table may be equipped with—

(a) low fences to restrict sideways and endways movement during testing;

(b) high fences or other means of maintaining a superimposed load in position on the package during testing.

Additionally the apparatus shall comply with the requirements and tolerances of Clause 7.

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