
International Standard



8474

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Packaging — Complete, filled transport packages — Water immersion test

Emballages d'expédition complets et pleins — Essai d'immersion dans l'eau

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8474 was prepared by Technical Committee ISO/TC 122 *Packaging*.

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Packaging — Complete, filled transport packages — Water immersion test

1 Scope and field of application

This International Standard specifies a test method for the immersion in water of complete, filled transport packages. It may be used to pre-condition a package prior to other tests, to investigate reduction in strength caused by exposure to water or to investigate the protection the package gives to its contents from water immersion. The test is principally intended for packages which are waterproof or which are intended to provide some degree of "waterproofness".

The test is performed on the package as prepared for transport and may form part of a test sequence.

2 Reference

ISO 2233, *Packaging — Complete, filled transport packages — Conditioning for testing*.

3 Principle

Conditioning of the package, followed by complete immersion in water, removal and draining and drying in the conditioning atmosphere. The time of immersion, time of draining and drying and the atmospheric conditions are predetermined.

4 Apparatus

4.1 Test area, conditioned in such a manner that evaporation from the wet package and the surface of the water in the water tank (4.2) do not significantly change the atmospheric conditions.

4.2 Water tank, sufficiently large for the test package to be immersed completely under water with the water level at least 100 mm above the package. The tank shall be designed so that it can be easily filled with water and emptied and the water maintained at the temperature specified in 7.1.

4.3 Immersion equipment to contain the test package loosely. It shall be capable of being lowered and lifted. A cage of appropriate dimensions is suitable for this purpose.

NOTE — Some means of hoisting, for example an electric or manual hoist, may be fitted over the water tank to lower and raise the test package conveniently.

4.4 Rigid grill, capable of supporting the wet test package without deformation and positioned so that air is able to flow freely beneath it. The rods or bars from which it is made shall not occupy more than 10 % of the surface area.

5 Package preparation

The test package shall normally be filled with its intended contents. However, under certain circumstances, simulated or dummy contents may be used, on condition that the dimensions and physical properties of the such contents shall be as close as possible to those of the intended contents.

Ensure that the test package is closed, and labelled or marked normally, as if ready for distribution. If simulated or dummy contents are used, ensure that the normal methods of closure, and labelling or marking are still employed.

6 Conditioning

The package shall be conditioned in accordance with one of the conditions specified in ISO 2233.

7 Procedure

7.1 Fill the tank (4.2) to an appropriate depth with water and ensure that the water temperature is within ± 2 °C of the temperature selected from a range from 5 to 40 °C.