



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 1733-1993

Replacing GB 1733-1979

Determination of resistance to water of films

漆膜耐水性测定法

(English Translation)

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1 Thematic Content and Applicable Scope

This Standard specifies the methods for determining the water resistance of paint films, including two methods: the water immersion test method and the immersion in boiling water test method. After reaching the specified test time, the water resistance of the paint film is expressed by the phenomenon of the surface change of the paint film.

2 Normative References

GB 1727 General Preparation of Paint Film

GB 1764 Method for Determining the Thickness of Paint Film

GB 3186 Sampling Paint Products

GB 6682 Water for Analytical Laboratory Use - Specification

3 Materials and Equipment

3.1

Underplate

The underplate shall be flat and free of distortion; and the plate surface shall be free of any visible cracks and wrinkles. Unless otherwise specified, the underplate shall be tinplate with a size of 120mmx25mmx0.2~0.3 mm.

3.2

Distilled water or deionized water meets the requirements of the Class-III water specified in GB 6682.

3.3

Glass water tank.

4 Sampling

Unless otherwise specified, it shall be carried out in accordance with the provisions of GB 3186.

5 Processing and Painting of the Underplate

Unless otherwise specified, prepare paint film on three tinplate (3.1) according to the the product standard.

9.2.1 Immersion of test panels

Add distilled water or deionized water (3.2) to the glass water tank (3.3). Unless otherwise specified, keep the water (3.2) in a boiling state until the end of the test.

Put three test panels into it, and immerse 2/3 of the length of each test panel in water.

9.2.2 Inspection of test panel

Check and evaluate the test panel in accordance with the provisions of 9.1.2 specified in Method-A.

10 Test Report

The test report shall include the following:

- a. The model and name of the tested product;
- b. Explain the use of this national standard (GB/T 1733) and which method (Method-A or Method-B);
- c. Any difference from the content specified in this national standard;
- d. Test results (detailed records of paint film damage and evaluation results);
- e. Test date.