

ICS 87.040
CCS G 50



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

GB/T 9753-2007

**Paints and varnishes -- Cupping test
(English Translation)**

Issued on: September 11, 2007

Implemented on: April 1, 2008

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

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Foreword

This Standard identically adopts ISO 1520.2006 "Paints and varnishes -- Cupping test" (English version).

This Standard replaces GB/T 9753-1988 "Paints and varnishes -- Cupping test".

The main technical differences between this Standard and the previous version GB/T 9753-1988 are.

- The previous version is equivalent to ISO 1520.1973;
- Added precision data;
- Improved the evaluation accuracy of the results.

This document was proposed by China Petroleum and Chemical Industry Association.

This document shall be under the jurisdiction of National Technical Committee on Paints and Pigments of Standardization Administration of China.

The drafting organizations of this document. China National Chemical Engineering Corporation Changzhou Coatings Chemical Research Institute.

Main drafters of this document. Chen Gang.

This Standard was first issued in 1988. This is the first revision.

This Standard is entrusted to the National Technical Committee on Paints and Pigments of Standardization Administration of China for interpretation.

Paints and varnishes -- Cupping test

1 Scope

This Standard specifies an empirical test procedure to evaluate the resistance of coatings of paints, varnishes and related products to cracking or separation from the metal substrate after gradual deformation by indentation under standard conditions.

This Standard is applicable to single coating or composite coating system. For composite coating system, each coating can be tested separately or the whole system can be tested.

The test method may be as follows.

- Test to specified indentation depth and assess "pass/fail" based on compliance with specific requirements;
- The indentation depth is gradually increased to determine the minimum depth at which the coating just begins to crack or separate from the substrate.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 3186-2006, Paints, varnishes and raw materials for paints and varnishes -- Sampling (ISO 15528.2000, IDT)

GB/T 9271, Paints and varnishes standard panels for testing (GB/T 9271-1988, eqv ISO 1514.1984)

GB/T 13452.2, Paints and varnishes -- Determination of film thickness (GB/T
13452.2-1992, eqv ISO 2808.1974)

GB/T 20777-2006, Paints and varnishes -- Examination and preparation of samples
for testing (ISO 1513.1992, IDT)

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