Third edition 2011-01-15

Paints and varnishes — Bend test (cylindrical mandrel)

Peintures et vernis — Essai de pliage sur mandrin cylindrique



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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 1519 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This third edition cancels and replaces the second edition (ISO 1519:2002), which has been technically revised. The main changes are:

- a) A principle clause has been added.
- b) The requirement to carry out the test at a controlled relative humidity has been deleted (although the relative humidity is measured and recorded during the test). A maximum limit for the time between conditioning and testing has therefore been added.
- c) The supplementary test conditions (formerly Annex A) have been integrated in the test report.
- d) Information has been given on the precision of the method.

Introduction

This International Standard is one of six which specify empirical test procedures for assessing the resistance of coatings of paints, varnishes and related products to cracking and/or detachment from the substrate under different conditions of deformation.

The other five documents are:

- ISO 1520, Paints and varnishes Cupping test
- ISO 6272-1, Paints and varnishes Rapid-deformation (impact resistance) tests Part 1: Fallingweight test, large-area indenter
- ISO 6272-2, Paints and varnishes Rapid-deformation (impact resistance) tests Part 2: Fallingweight test, small-area indenter
- ISO 6860, Paints and varnishes Bend test (conical mandrel)
- ISO 17132, Paints and varnishes T-bend test

The method chosen will depend on the property to be measured and on agreement between the interested parties. In principle, all these tests differ from each other technically and in their accuracy.