BS EN ISO 20567-1:2017

BSI Standards Publication

Paints and varnishes — Determination of stone-chip resistance of coatings

Part 1: Multi-impact testing (ISO 20567-1:2017)

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National foreword

This British Standard is the UK implementation of EN ISO 20567-1:2017. It supersedes BS EN ISO 20567-1:2006 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/10, Test methods for paints.

A list of organizations represented on this committee can be obtained on request to its secretary.

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European foreword

This document (EN ISO 20567-1:2017) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 “Paints and varnishes” the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2017 and conflicting national standards shall be withdrawn at the latest by August 2017.

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

This document supersedes EN ISO 20567-1:2006.

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Endorsement notice

The text of ISO 20567-1:2017 has been approved by CEN as EN ISO 20567-1:2017 without any modification.

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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The committee responsible for this document is ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 20567-1:2005), which has been technically revised with the following main changes:

— a table with the particle size distribution of the grit material has been added;

— a note concerning the use of actual pressure gages has been added to Figure 2;

— the clause on sampling has been deleted;

— the description of suitable methods for removal of loose paint have been transferred to an informative annex as examples and, for the method using adhesive tape, the adhesive strength of the tape is no longer specified;

— this document is revised editorially and the normative references have been updated.

A list of all parts in the ISO 20567 series can be found on the ISO website.

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Introduction

In the automobile industry, multi-layer paint coatings are applied to car bodies for protection. Grit, road-metal and other materials can damage these coatings in such a way that individual layers come off or the whole coating delaminates from the substrate.

Stone chipping can be simulated by means of single- and/or multi-impact tests. ISO 20567-1 describes multi-impact testing; ISO 20567-2 and ISO 20567-3 describe single-impact tests.

NOTE A recommended procedure for calibration of the apparatus is given in Annex B. Note that this annex is informative because the method described in it is not the only one suitable for checking whether a uniform impact pattern is produced.

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