BRITISH STANDARD

BS 3900-E12.1:2000
ISO 6441-1:1999

Methods of test for paints —

Part E12.1: Determination of Knoop hardness by measurement of the indentation length using a microscope

ICS 87.040

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

Documents
Document Sharing Hub

Full document details: BS 3900-E12.1:2000

National foreword

This British Standard reproduces ISO 6441-1:1999 and implements it as the UK national standard. Together with BS 3900-E12.2 and BS 3900-E12.3, it supersedes BS 3900-E12:1986 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/10, Test methods for paints, which has the responsibility to:

— aid enquirers to understand the text;

— present to the responsible international/ European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;

— monitor related international and European developments and promulgate them in the UK.

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

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled "International Standards Correspondence Index", or by using the "Find" facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 9 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard, having been prepared under the direction of the Sector Committee for Materials and Chemicals, was published under the authority of the Standards Committee and comes into effect on 15 March 2000

© BSI 03-2000

ISBN 0 580 34513 0

Amendments issued since publication

Amd. No.	Date	Comments

Documents
Document Sharing Hub

Full document details: BS 3900-E12.1:2000

INTERNATIONAL STANDARD

ISO 6441-1

First edition
1999-12-15

Paints and varnishes — Determination of micro-indentation hardness —

Part 1: Knoop hardness by measurement of indentation length

Peintures et vernis — Détermination de la dureté par micro-indentation —

Partie 1: Dureté Knoop par mesurage de la longueur d'indentation

Reference number
ISO 6441-1:1999(E)

Documents
Document Sharing Hub

Full document details: BS 3900-E12.1:2000

Documents
Document Sharing Hub
Full document details: BS 3900-E12.1:2000

Contents

Page

1 Scope 1
2 Normative references 1
3 Principle 2
4 Required supplementary information 2
5 Apparatus 2
6 Sampling 4
7 Test panels 4
8 Calibration of the apparatus 5
9 Procedure 5
10 Expression of results 6
11 Precision 6
12 Test report 7
Annex A (normative) Required supplementary information 8
Bibliography 9

Documents
Document Sharing Hub

Full document details: BS 3900-E12.1:2000

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 part of ISO 6441 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 6441-1 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

Together with the other parts (see below), it cancels and replaces ISO 6441:1984, which has been technically revised.

ISO 6441 consists of the following parts, under the general title *Paints and varnishes — Determination of micro-indentation hardness:*

— *Part 1: Knoop hardness by measurement of indentation length*

— *Part 2: Knoop hardness by measurement of indentation depth under load*

— *Part 3: Creep and visco-elastic properties and elastic modulus using the Vickers indenter*

Annex A forms a normative part of this part of ISO 6441.

Documents
Document Sharing Hub
Full document details: BS 3900-E12.1:2000