

SLOVENSKI STANDARD SIST EN ISO 1248:2009

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Iron oxide pigments - Specifications and methods of test (ISO 1248:2006 including Technical Corrigendum 1:2007)

Eisenoxid-Pigmente - Anforderungen und Prüfverfahren (ISO 1248:2006, einschließlich Technische Korrektur 1:2007) STANDARD PREVIEW

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Pigments à base d'oxydes de fer - Spécifications et méthodes d'essai (ISO 1248:2006
Corrigendum téchnique 1:2007 inclus)_{STEN ISO 1248:2009}

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Ta slovenski standard je istoveten z: EN ISO 1248-2009

ICS:

87.060.10 Pigmenti in polnila Pigments and extenders

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN ISO 1248**

March 2008

ICS 87.060.10

English Version

Iron oxide pigments - Specifications and methods of test (ISO 1248:2006 including Technical Corrigendum 1:2007)

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This European Standard was approved by CEN on 28 February 2008.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 1248:2008 (E)

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EN ISO 1248:2008 (E)

Foreword

The text of ISO 1248:2006 including Technical Corrigendum 1:2007 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 1248:2008 by Technical Committee CEN/TC 298 "Pigments and extenders" 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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

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.

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iTeh STANDARD PREVIEW Endorsement notice

The text of ISO 1248:2006 including Technical Corrigendum 1:2007 has been approved by CEN as a EN ISO 1248:2008 without any modification.

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INTERNATIONAL STANDARD

ISO 1248

Second edition 2006-09-15

Iron oxide pigments — Specifications and methods of test

Pigments à base d'oxydes de fer — Spécifications et méthodes d'essai

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Published in Switzerland

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ISO 1248:2006(E)

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 2.

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 1248 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 2, *Pigments and extenders*.

This second edition cancels and replaces the first edition (ISO 1248:1974), which has been technically revised. (standards.iteh.ai)

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Iron oxide pigments — Specifications and methods of test

Scope

This International Standard specifies the requirements and the corresponding methods of test for all manufactured and natural iron oxide pigments, in dry form, suitable for general use. These pigments are identified by Colour Index Nos.¹⁾ red 101 and 102, yellow 42 and 43, brown 6 and 7 and black 11, and includes "rapid-dispersion pigments".

This International Standard does not cover micaceous iron oxide pigments (see Note 1), transparent iron oxide pigments, granular grey iron oxide (see Note 2) or magnetic iron oxide pigments other than those of Colour Index Pigment black 11.

NOTE 1 The requirements and the corresponding methods of test for micaceous iron oxide pigments are specified in ISO 10601.

NOTE 2

Granular grey iron oxides are too abrasive for general use. ITeh STANDARD PREVIEW

Normative references (standards.iteh.ai)

The following referenced documents are indispensable for the application of this document. For dated references, only the reditional oited applies of solutional oited applies of solution of the referenced document (including any amendments) applies 3/sist-en-iso-1248-2009

ISO 385-1, Laboratory glassware — Burettes — Part 1: General requirements

ISO 648, Laboratory glassware — One-mark pipettes

ISO 787-1, General methods of test for pigments and extenders — Part 1: Comparison of colour of pigments

ISO 787-2, General methods of test for pigments and extenders — Part 2: Determination of matter volatile at 105 °C

ISO 787-3, General methods of test for pigments and extenders — Part 3: Determination of matter soluble in water — Hot extraction method

ISO 787-4, General methods of test for pigments and extenders — Part 4: Determination of acidity or alkalinity of the aqueous extract

ISO 787-5, General methods of test for pigments and extenders — Part 5: Determination of oil absorption value

ISO 787-7, General methods of test for pigments and extenders — Part 7: Determination of residue on sieve — Water method — Manual procedure

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The Colour Index is published by The Society of Dyers and Colourists, PO Box 244, Perkin House, 82 Grattan Road, Bradford, West Yorkshire BD1 2JB, United Kingdom; and the American Association of Textile Chemists and Colorists, National Headquarters, Box 12215, Research Triangle Park, N.C. 27709, USA.

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ISO 787-9, General methods of test for pigments and extenders — Part 9: Determination of pH value of an aqueous suspension

ISO 787-13, General methods of test for pigments and extenders — Part 13: Determination of water-soluble sulfates, chlorides and nitrates

ISO 787-16, General methods of test for pigments and extenders — Part 16: Determination of relative tinting strength (or equivalent colouring value) and colour on reduction of coloured pigments — Visual comparison method

ISO 1042, Laboratory glassware — One-mark volumetric flasks

ISO 3696, Water for analytical laboratory use — Specification and test methods

ISO 15528, Paints, varnishes and raw materials for paints and varnishes — Sampling

3 Description

The iron oxide pigments covered by this International Standard consist mainly of iron oxides and hydrated iron oxides. Their colours are usually red, yellow, brown or black.

4 Classification

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4.1 General

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In this International Standard, iron oxide pigments are classified as follows:

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by groups depending on their colours itch ai/catalog/standards/sist/c3031a17-0fab-428b-9a18-

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- by categories depending on their iron content, expressed as iron(III) oxide;
- by **types** depending on their content of water-soluble matter and their total content of water-soluble chlorides and sulfates, expressed as the ions Cl^- and SO_4^{2-} ;
- by grades depending on their residue on sieve;
- by **classes** depending on their origin.

4.2 Criteria for classification

4.2.1 Groups

Depending on their colour	iron oxide pigments	are divided into four groups:
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— reds;

— yellows;

— browns;

blacks.