
**Prozorne tekočine - Ocenjevanje barve s platina-kobaltovo lestvico - 2. del:
Spektrofotometrijska metoda (ISO 6271-2:2004)**

Clear liquids - Estimation of colour by the platinum-cobalt scale - Part 2:
Spectrophotometric method (ISO 6271-2:2004)

Klare Flüssigkeiten - Bestimmung der Farbe nach der Platin-Cobalt-Skala - Teil 2:
Spektralphotometrisches Verfahren (ISO 6271-2:2004)

Liquides clairs - Evaluation de la couleur au moyen de l'échelle platine-cobalt - Partie 2:
Méthode spectrophotométrique (ISO 6271-2:2004)

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Ta slovenski standard je istoveten z: EN ISO 6271-2:2004

ICS:

17.180.20	Barve in merjenje svetlobe	Colours and measurement of light
87.060.99	Druge sestavine barv	Other paint ingredients

SIST EN ISO 6271-2:2005

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 6271-2

November 2004

ICS 87.060.20

English version

**Clear liquids - Estimation of colour by the platinum-cobalt scale -
Part 2: Spectrophotometric method (ISO 6271-2:2004)**

Liquides clairs - Evaluation de la couleur au moyen de
l'échelle platine-cobalt - Partie 2: Méthode
spectrophotométrique (ISO 6271-2:2004)

Klare Flüssigkeiten - Bestimmung der Farbe nach der
Platin-Cobalt-Skala - Teil 2: Spektralphotometrisches
Verfahren (ISO 6271-2:2004)

This European Standard was approved by CEN on 14 November 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 6271-2:2004 (E)**Foreword**

This document (EN ISO 6271-2:2004) 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 6271-2:2004 has been approved by CEN as EN ISO 6271-2:2004 without any modifications.

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INTERNATIONAL
STANDARD

ISO
6271-2

First edition
2004-11-15

**Clear liquids — Estimation of colour by
the platinum-cobalt scale —**

**Part 2:
Spectrophotometric method**

*Liquides clairs — Évaluation de la couleur au moyen de l'échelle platine-
cobalt —*

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Partie 2: Méthode spectrophotométrique

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ISO 6271-2:2004(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 6271-2 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 10, *Test methods for binders for paints and varnishes*, in collaboration with ASTM D 01.34, *Naval Stores*.

ISO 6271 consists of the following parts, under the general title *Clear liquids — Estimation of colour by the platinum-cobalt scale*:

— Part 1: *Visual method*

— Part 2: *Spectrophotometric method*

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Clear liquids — Estimation of colour by the platinum-cobalt scale —

Part 2: Spectrophotometric method

1 Scope

This part of ISO 6271 specifies a spectrophotometric method for estimating the colour, in Pt-Co units, of clear liquids. It is applicable to clear liquids having a colour characteristic similar to those of the reference platinum-cobalt scale specified in ISO 6271-1.

The method described provides a more precise way of measuring Pt-Co colour than that described in ISO 6271-1.

NOTE The term “platinum-cobalt colour (Pt-Co colour)” used here is preferred over the terms “Hazen colour” and “APHA colour”.

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2 Normative references

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The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6271-1, *Clear liquids — Estimation of colour by the platinum-cobalt scale — Part 1: Visual method*

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

CIE Publication No. 15.2, *Colorimetry*

3 Principle

The colour of a liquid sample is measured using an instrument capable of measuring transmitted colour and reporting in Pt-Co colours or in a colour system that can be converted into Pt-Co colours.

4 Apparatus and materials

4.1 Colour-measuring instrument, capable of measuring transmitted colour ($0^\circ/180^\circ$ geometry) and reporting the results in the platinum-cobalt colour scale described in ISO 6271-1. If such an instrument is not available, one may be used which is capable of measuring transmitted colour and reporting in tristimulus values or chromaticity coordinates using standard illuminant C and the 2° observer, described in CIE Publication No. 15.2.

4.2 Glass absorption cells, 50 mm path length, unless a different path length is specified by the instrument manufacturer.