

SLOVENSKI STANDARD SIST EN ISO 18451-1:2017

01-december-2017

Pigmenti, barvila in polnila - Terminologija - 1. del: Splošni izrazi (ISO 18451-1:2015)

Pigments, dyestuffs and extenders - Terminology - Part 1: General terms (ISO 18451-1:2015)

Pigmente, Farbstoffe und Füllstoffe - Begriffe - Teil 1: Allgemeine Begriffe (ISO 18451-1:2015) **iTeh STANDARD PREVIEW**

Pigments, colorants et matières de charge - Terminologie - Partie 1: Termes généraux (ISO 18451-1:2015) SIST EN ISO 18451-1:2017

https://standards.iteh.ai/catalog/standards/sist/93e5afb1-bbd6-4ab7-9348-

Ta slovenski standard je istoveten z: EN ISO 18451-1-2017

ICS:

01.040.87 Industrija barv (Slovarji) (Vocabularies) Pigmenti in polnila 87.060.10

Paint and colour industries Pigments and extenders

SIST EN ISO 18451-1:2017

en,fr,de

<u>SIST EN ISO 18451-1:2017</u> https://standards.iteh.ai/catalog/standards/sist/93e5afb1-bbd6-4ab7-9348-2345d5a67ed2/sist-en-iso-18451-1-2017

SIST EN ISO 18451-1:2017

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 18451-1

September 2017

ICS 01.040.87; 87.060.10

English Version

Pigments, dyestuffs and extenders - Terminology - Part 1: General terms (ISO 18451-1:2015)

Pigments, colorants et matières de charge -Terminologie - Partie 1: Termes généraux (ISO 18451-1:2015) Pigmente, Farbstoffe und Füllstoffe - Begriffe - Teil 1: Allgemeine Begriffe (ISO 18451-1:2015)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN ISO 18451-1:2017 E

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European foreword

The text of ISO 18451-1:2015 has been prepared by Technical Committee ISO/TC 256 "Pigments, dyestuffs and extenders" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 18451-1:2017 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of an identical text or by endorsement, at the latest by March 2018, and conflicting national standards shall be withdrawn at the latest by March 2018.

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

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iTeh STALendorsement noticeVIEW

The text of ISO 18451-1:2015 has been approved by CEN as EN ISO 18451-1:2017 without any modification.

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INTERNATIONAL STANDARD

ISO 18451-1

First edition 2015-11-01

Pigments, dyestuffs and extenders — Terminology —

Part 1: General terms

Pigments, colorants et matières de charge — Terminologie —

iTeh STPartie DTermes généraux VIEW (standards.iteh.ai)

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Reference number ISO 18451-1:2015(E)

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ISO 18451-1:2015(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.

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ASO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 256, *Pigments, dyestuffs and extenders*.

ISO 18451 consists of the following parts, under the general title Pigments, dyestuffs and extenders — Terminology: https://standards.iteh.ai/catalog/standards/sist/93e5afb1-bbd6-4ab7-9348-2345d5a67ed2/sist-en-iso-18451-1-2017

- Part 1: General terms
- Part 2: Classification of colouring materials according to colouristic and chemical aspects

Pigments, dyestuffs and extenders — Terminology —

Part 1: General terms

1 Scope

This part of ISO 18451 defines terms that are used in the field of pigments, dyestuffs and extenders.

For some terms, reference is made to ISO 4618 in which also terms and definitions for colourants are given, relating to their use in coating materials.

In addition to terms in English and French (two of the three official ISO languages), this part of ISO 18451 gives the equivalent terms in German; these are published under the responsibility of the member body for Germany (DIN). However, only the terms and definitions given in the official languages can be considered as ISO terms and definitions.

NOTE Those terms that are defined elsewhere in this part of ISO 18451 are shown in *italics*.

2 Terms and definitions TANDARD PREVIEW

For the purposes of this document, the following terms and definitions apply.

2.1

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abrasiveness https://standards.iteh.ai/catalog/standards/sist/93e5afb1-bbd6-4ab7-9348property of *pigments* (2.95) or *extenders* (2.34) is and 4 their preparations to cause wear at the used apparatus by mechanical action

2.2

aluminium pigment

pigment (2.95) consisting essentially of finely divided pure aluminium Al 99,5

Note 1 to entry: The aluminium particles have lamellar form.

2.3

apparent density after tamping

ratio of mass to volume of a powder after compressing (e.g. by tamping or vibration) under specified conditions

2.4

barite

naturally occurring barium sulfate, BaSO₄

2.5

binder demand

amount of a binder or binder solution that is required to obtain, under specified dispersion conditions, a mass of defined rheology

2.6

bismuth vanadate pigment

yellow inorganic *pigment* (2.95) consisting of bismuth vanadate with or without isomorphous inclusion of bismuth molybdate

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2.7

blanc fixe

barium sulphate

synthetic barium sulphate, produced by a precipitation process

Note 1 to entry: Naturally occurring barium sulfate is called *barite* (2.4).

2.8

bleeding

migration (2.76) of a *colourant* (2.19) from a material into another material being in contact with it

2.9

blooming

migration (2.76) of a *colourant* (2.19) to the surface of the coloured material

2.10

cadmium pigment

inorganic coloured pigment consisting essentially of cadmium zinc sulphide (yellow pigments) or of mixed crystals of cadmium sulphide and cadmium selenide (red pigments)

2.11

calcined clav calcined aluminium silicate

aluminium silicate (Al₂O₃ · 2SiO₂), lamellar, mainly amorphous in structure as determined by X-ray diffraction, produced from natural clay by thermal dehydration, consisting partly of cristalline mullite $3(Al_2O_3 \cdot 2SiO_2)$ iTeh STANDARD PREVIEW

2.12 Calcite

(standards.iteh.ai)

2.12.1

SIST EN ISO 18451-1:2017 calcite crystalline calcium carbonate 2345d5a67q2/cit.en.iso.18451_1_2017 crystalline calcium carbonate 2345d5a67ed2/sist-en-iso-18451-1-2017 <mineralogy> calcium carbonate of trigonal crystal structure

2.12.2

calcite

crystalline calcium carbonate

recipitated calcitic calcium carbonates

2.13

carbon black

pigment (2.95) synthetically produced by thermally oxidative cracking of aromatic oils and gases

Note 1 to entry: It is distinguished between carbon black and industrial carbon black.

2.14

ceramic decoration colour

preparation consisting of coloured or colourless glass powder and inorganic *pigments* (2.95) for coating of ceramics or glass by melting at temperatures above 450 °C

2.15

chalking

appearance of a loosely adherent fine *powder* (2.97) on the surface of a film or pigmented plastic arising from the degradation of the binder

2.16

chroma

difference of a *colour* (2.20) from an achromatic colour of the same lightness