



SLOVENSKI STANDARD
oSIST prEN ISO 4618:2014
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Barve in laki - Izrazi in definicije (ISO/DIS 4618:2012)

Paints and varnishes - Terms and definitions (ISO/DIS 4618:2012)

Beschichtungsstoffe - Begriffe (ISO/DIS 4618:2012)

Peintures et vernis - Termes et définitions (ISO/DIS 4618:2012)

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(Vocabularies)

87.040 Barve in laki Paints and varnishes

oSIST prEN ISO 4618:2014

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN ISO 4618 rev

December 2012

ICS 01.040.87; 87.040

Will supersede EN ISO 4618:2006

English Version

**Paints and varnishes - Terms and definitions (ISO/DIS
4618:2012)**

Peintures et vernis - Termes et définitions (ISO/DIS
4618:2012)

Beschichtungsstoffe - Begriffe (ISO/DIS 4618:2012)

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 139.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (prEN ISO 4618:2012) 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 document is currently submitted to the parallel Enquiry.

This document will supersede EN ISO 4618:2006.

Endorsement notice

The text of ISO/DIS 4618:2012 has been approved by CEN as a prEN ISO 4618:2012 without any modification.

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DRAFT INTERNATIONAL STANDARD ISO/DIS 4618

ISO/TC 35

Secretariat: **NEN**Voting begins on
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2013-05-20

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Paints and varnishes — Terms and definitions

Peintures et vernis — Termes et définitions

[Revision of first edition (ISO 4618:2006)]

ICS 01.040.87; 87.040

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ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

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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.

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 4618 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 4618:2006), which has been technically revised.

The main changes are:

- a) The following terms have been added: aerosol, appearance, bubble, colour retention, dispersion, emulsion, holiday, nanoaerosol, nanocoating, nanodispersion, nanoemulsion, nanoextender, nanofilm, nano-object, nanopigment, nanostructured coating, nanosuspension, nanotexture, overcoatability, overspray absorption, performance, reflow effect, scratch, scribe, surface structure, suspension, texture.
- b) The following terms have been amended: agglomerate, aggregate, airless spraying, anti-foaming agent, anti-fouling paint, binder, bleeding, blistering, blooming, brightness, bubbling, chalking, chromating, coat, coating, coating material, coating process, cohesion, colour, colour retention, colouring material, cratering, deforming agent, de-nibbling, dirt pick-up, dirt retention, drying, durability, etching, extender, feather edging, filler, filling, film, floating, flooding, hardness, hiding power, lap, leafing, mar, miss, non-volatile matter, pigment, polymer dispersion, pot life, recoatability, rust grade, sags, sheen, shelf life, stopper, substrate.
- c) The following terms have been deleted: hair cracking, high solids.

Paints and varnishes — Terms and definitions

1 Scope

This International Standard defines terms used in the field of coating materials (paints, varnishes and raw materials for paints and varnishes).

Terms relating to specific applications and properties are dealt with in standards concerning those applications and properties, e.g. corrosion protection, coating powders.

Terms on nanotechnologies are harmonized with ISO/DTS 80004-4.

In addition to terms in English and French (two of the three official ISO languages), this International Standard 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 to entry: Those terms that are defined elsewhere in the standard are shown in **bold type**.

2 Terms and definitions

2.1

abrasive blast-cleaning

impingement of a high-kinetic-energy stream of an abrasive on the surface to be prepared

2.2

accelerator

additive that increases the speed of chemical reactions

2.3

acid value

number of milligrams of potassium hydroxide (KOH) required to neutralize 1 g of a sample under specified test conditions

2.4

acrylic resin

synthetic resin resulting from the polymerization or copolymerization of acrylic and/or methacrylic monomers, frequently together with other monomers

2.5

additive

any substance, added in small quantities to a **coating material**, to improve or otherwise modify one or more properties

2.6

adhesion

phenomenon of attachment at the interface between a solid surface and another material caused by molecular forces

Note to entry: Adhesion should not be confused with **cohesion**.

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2.7

adhesive strength

sum total of the forces of attachment between a dry **coating** and a **substrate**

2.8

aerosol

solid or liquid particles in dispersion in a gaseous medium

2.9

after tack

property of a **film** to remain sticky after normal drying or curing

2.10

ageing

irreversible changes in the properties of a **film** which occur with the passage of time

2.11

agglomerate

assemblage of primary particles and/or **aggregates** of **pigments** and/or **extenders**, which can be broken down, during normal paint making processes

Note to entry: The force applied to the **aggregates/agglomerates** during the paint making process can differ, depending on the method used.

2.12

aggregate

assemblage of particles of **pigments** and **extenders** so joined together that the assemblage cannot be broken down during normal paint making processes

Note to entry: The force applied to the **aggregates/agglomerates** during the paint making process can differ, depending on the method used.

2.13

airless spraying

process of application of **coating material** by forcing it hydraulically through an orifice at high pressure

2.14

alkyd resin

synthetic resin resulting from the polycondensation of fatty acids (or oils) and carbonic acids with polyols

2.15

amino resin

synthetic resin resulting from the condensation of urea or melamine or derivatives such as benzo-guanamine with formaldehyde

Note to entry: These resins are often etherified with alcohols.

2.16

anti-blocking agent

additive that usually rises to the surface during the drying process and thus prevents **blocking**

2.17

anti-foaming agent

additive that prevents foaming or reduces the foaming tendency of a **coating material**

Note to entry: See also **defoaming agent**.