

Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics - Part 1: General introduction (ISO 23900-1:2015)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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| See Eesti standard EVS-EN ISO 23900-1:2018 sisaldab Euroopa standardi EN ISO 23900-1:2018 ingliskeelset teksti. | This Estonian standard EVS-EN ISO 23900-1:2018 consists of the English text of the European standard EN ISO 23900-1:2018. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 10.01.2018. | Date of Availability of the European standard is 10.01.2018. |
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English Version

**Pigments and extenders - Methods of dispersion and
assessment of dispersibility in plastics - Part 1: General
introduction (ISO 23900-1:2015)**

Pigments et matières de charge - Méthodes de
dispersion et évaluation de l'aptitude à la dispersion
dans les plastiques - Partie 1: Généralités (ISO 23900-
1:2015)

Pigmente und Füllstoffe - Dispergierv Verfahren und
Beurteilung der Dispergierbarkeit in Kunststoffen -
Teil 1: Allgemeine Einleitung (ISO 23900-1:2015)

This European Standard was approved by CEN on 4 January 2018.

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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-CENELEC 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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of ISO 23900-1:2015 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 23900-1:2018 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 July 2018, and conflicting national standards shall be withdrawn at the latest by July 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.

This document supersedes EN 13900-1:2003.

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

Endorsement notice

The text of ISO 23900-1:2015 has been approved by CEN as EN ISO 23900-1:2018 without any modification.

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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.

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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO'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 23900 consists of the following parts, under the general title *Pigments and extenders — Methods of dispersion and assessment of dispersibility in plastics*:

- *Part 1: General introduction*
- *Part 2: Determination of colouristic properties and ease of dispersion in plasticized polyvinyl chloride by two-roll milling*
- *Part 3: Determination of colouristic properties and ease of dispersion of black and colour pigments in polyethylene by two-roll milling*
- *Part 4: Determination of colouristic properties and ease of dispersion of white pigments in polyethylene by two-roll milling*
- *Part 5: Determination by filter pressure value test*
- *Part 6: Determination by film test*

Pigments and extenders — Methods of dispersion and assessment of dispersibility in plastics —

Part 1: General introduction

1 Scope

This part of ISO 23900 provides an introduction to the various parts of ISO 23900 which describe methods for dispersing pigments and extenders in plastics materials in order to determine their dispersion characteristics and colouristic properties.

Methods of assessing dispersion characteristics are described in the subsequent parts of ISO 23900.

The various procedures described permit comparison to be made between similar pigments (for example between a test sample and an agreed reference pigment). The results provide an indication of relative dispersibility under practical conditions of use, provided that the test procedure and plastics material selected are appropriate.

2 Normative references

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

ISO 23900-2, *Pigments and extenders — Methods of dispersion and assessment of dispersibility in plastics — Part 2: Determination of colouristic properties and ease of dispersion in plasticized polyvinyl chloride by two-roll milling*

ISO 23900-3, *Pigments and extenders — Methods of dispersion and assessment of dispersibility in plastics — Part 3: Determination of colouristic properties and ease of dispersion of black and colour pigments in polyethylene by two-roll milling*

ISO 23900-4, *Pigments and extenders — Methods of dispersion and assessment of dispersibility in plastics — Part 4: Determination of colouristic properties and ease of dispersion of white pigments in polyethylene by two-roll milling*

ISO 23900-5, *Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics — Part 5: Determination by filter pressure value test*

ISO 23900-6, *Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics — Part 6: Determination by film test*

3 Terms and definitions

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