INTERNATIONAL STANDARD

ISO 18451-2

First edition 2015-11-01

Pr T Pigments, dyestuffs and extenders — Terminology —

Part 2:

Classification of colouring materials according to colouristic and chemical aspects

Pigments, colorants et matières de charge — Terminologie —

et n. tion des tiques et c. Partie 2: Classification des matières colorantes en fonction de leurs propriétés coloristiques et chimiques

Reference number ISO 18451-2:2015(E)



© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
	norganic and organic colouring materials in accordance with ts	1
	norganic and organic colouring materials in accordance with	9
Bibliography		
	entis a oroution was a constant of the oroution of the oroutio	Š

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 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 18451 consists of the following parts, under the general title *Pigments, dyestuffs and extenders* — *Terminology*:

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

© ISO 2015 – All rights reserved

Introduction

In accordance with ISO 18451-1, it depends on the individual application as to whether a substance is to be considered as a pigment or as an extender. Substances like aluminium silicate, barium sulfate and calcium carbonate are taken into consideration in <u>Clauses 2</u> and <u>3</u>.

In addition to the examples of the colouring materials, the designation in accordance with the Colour Index¹) has been included. However it is to be noted that for a number of the given designations of colouring materials (which are partly collective designations) not only one designation in accordance with the Colour Index is possible, even if in this part of ISO 18451 only one Colour Index designation is given.

In the "Classification scheme" in <u>Clause 2</u>, some spaces are empty. Corresponding colouring materials are either without practical importance or they do not exist for physical reasons.

Inorganic dyestuffs, e.g. those for use with enamel, glass, ceramics and food, have been only mentioned in <u>Clauses 2</u> and <u>3</u> but not classified in accordance with certain aspects. The reason for this is that up to now such colouring materials are excluded from the work of ISO/TC 256.

ring r The Colour Index (briefly: C.I.) is a work of reference existing since 1925, and comprising all usual colouring 1) materials and dyestuff chemicals being used as their basis. It is accepted as a standard work in the field of pigment and dyestuff chemistry.

this document is a preview demendence of the document is a preview demendence of the document of the document

Pigments, dyestuffs and extenders — Terminology —

Part 2: Classification of colouring materials according to colouristic and chemical aspects

1 Scope

This part of ISO 18451 applies for the industry producing colouring materials and the consumer who uses the products of this industry. In this part of ISO 18451, the colouring materials are classified in accordance with colouristic and chemical aspects.

Some dyestuffs for use in the ceramics and food industries are listed as examples.

2 Classification of inorganic and organic colouring materials in accordance with colouristic aspects

Inorganic and organic colouring materials are classified in accordance with colouristic aspects as given in <u>Figure 1</u>.

s are