

STN	Všeobecné metódy skúšania pigmentov a plnidiel Časť 28: Stanovenie celkového obsahu polychlórovaných bifenylov (PCB), rozpúšťaním, prečistením a GC-MS (ISO 787-28: 2019)	STN EN ISO 787-28 67 0520
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General methods of tests for pigments and extenders - Part 28: Determination of total content of polychlorinated biphenyls (PCB) by dissolution, cleanup and GC-MS (ISO 787-28:2019)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/21

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English Version

**General methods of tests for pigments and extenders - Part
28: Determination of total content of polychlorinated
biphenyls (PCB) by dissolution, cleanup and GC-MS (ISO
787-28:2019)**

Méthodes générales d'essai des pigments et matières
de charge - Partie 28: Détermination de la teneur totale
en biphényles polychlorés dans les pigments
organiques par dissolution, purification et GC-SM (ISO
787-28:2019)

Allgemeine Prüfverfahren für Pigmente und Füllstoffe -
Teil 28: Bestimmung des Gesamtgehalts an
polychlorierten Biphenylen (PCB) durch Auflösung,
Reinigung und GC/MS (ISO 787-28:2019)

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EN ISO 787-28:2020 (E)

Contents	Page
European foreword.....	3

European foreword

The text of ISO 787-28:2019 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 787-28:2020 by Technical Committee CEN/TC 298 "Pigments and extenders" the secretariat of which is held by DIN.

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General methods of tests for pigments and extenders —

Part 28:

Determination of total content of polychlorinated biphenyls (PCB) by dissolution, cleanup and GC-MS

Méthodes générales d'essai des pigments et matières de charge —

*Partie 28: Détermination de la teneur totale en biphényles polychlorés
dans les pigments organiques par dissolution, purification et CG-SM*



Reference number
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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Sampling	2
6 Procedure	2
6.1 General.....	2
6.2 Clean-up to eliminate interfering species.....	3
6.3 Separation and quantification.....	3
7 Reagents	3
7.1 Safety precautions.....	3
7.2 Reagents, solvents and absorbents.....	4
7.3 Internal reference materials for PCBs, 13C12-labelled.....	5
7.4 Cleaning/disposal agents.....	5
8 Apparatus	5
9 Procedure	6
9.1 Preparation of test sample.....	6
9.2 Liquid-liquid extraction.....	7
9.2.1 Separation funnel.....	7
9.2.2 Ludwig extraction.....	8
9.3 Clean-up.....	8
9.3.1 General.....	8
9.3.2 Diatomaceous earth-sulfuric acid column (optional).....	8
9.3.3 Gel permeation (size exclusion) chromatography/porous styrene divinylbenzene beads-column (optional).....	9
9.3.4 Multilayer columns (obligatory).....	10
9.3.5 Alumina column (optional).....	11
9.4 Preparation of GC solution and GC procedure.....	11
9.5 Calculation and quantitation procedure.....	12
10 Test report	14
Annex A (informative) Nomenclature of PCBs	15
Bibliography	21

ISO 787-28:2019(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.

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This document was prepared by Technical Committee ISO/TC 256, *Pigments, dyestuffs and extenders*.

A list of all parts in the ISO 787 series can be found on the ISO website.

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Introduction

A number of methods to quantify PCBs in “environmental samples” or oil residues prove inadequate for pigments due to being merely extractive on the particle surface without taking into account occlusions of contaminants in the crystal lattice of pigments (see References [\[1\]](#) to [\[3\]](#)).

Occurrence and formation principles are referred to in References [\[5\]](#), [\[6\]](#) and [\[8\]](#).

General methods of tests for pigments and extenders —

Part 28:

Determination of total content of polychlorinated biphenyls (PCB) by dissolution, cleanup and GC-MS

1 Scope

This document specifies a method for determining the total content of polychlorinated biphenyls (PCBs), checking for all 209 possible congeners in pigment materials.

This document is applicable to a working range from 1 mg/kg to 150 mg/kg. The lower quantitation limit of this method is 1 mg/kg per congener. Results below 1 mg/kg are considered to be qualitative only.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

ISO 18451-1, *Pigments, dyestuffs and extenders — Terminology — Part 1: General terms*

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