**Draft for Public Comment**

Form 36

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Responsible committee: RPI/13 Advanced technical ceramics

Interested committees:

| |
|---|
| Title: Draft BS ISO 17168-1 ISO 17168-1 Fine ceramics (advanced ceramics, advanced technical ceramics). Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment. Part 1: Removal of nitric oxide. |
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**Introduction**

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For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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| Date: xx/xx/20xx | Document: ISO/DIS xxxx |
|---|---|

| 1 | 2 | (3) | 4 | 5 | (6) | 7 |
|---|---|---|---|---|---|---|
| **MB** | Clause No./ Subclause No./Annex **(e.g. 3.1)** | Paragraph/ Figure/Table/Note | **Type of comment** | **Commend (justification for change) by the MB** | **Proposed change by the MB** | **Secretariat observations on each comment submitted** |
| | 3.1 | Definition 1 | ed | Definition is ambiguous and needs clarifying. | Amend to read '...so that the mains connector to which no connection...' | |
| | 6.4 | Paragraph 2 | te | The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK. | Delete reference to UV photometer. | |

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# DRAFT International Standard

# ISO/DIS 17168-1

ISO/TC **206**

Secretariat: **JISC**

Voting begins on:
**2025-02-24**

Voting terminates on:
**2025-05-19**

# Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment —

## Part 1:
## Removal of nitric oxide

ICS: 81.060.30

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# Foreword

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 206, *Fine ceramics*.

This second edition cancels and replaces the first edition (ISO 17168-1:2018), which has been technically revised.

The main changes are as follows:

— a new reference to ISO 24448 was added to Clause 2 and 6.4.

A list of all parts in the ISO 17168 series can be found on the ISO website.

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# Introduction

Photocatalyst is a substance that performs decomposition and removal of contaminants, self-cleaning, antifogging, deodorization and antibacterial actions under photoirradiation. Its application has expanded considerably in recent years. The application of photocatalysts for indoor spaces has increasingly been sought as a solution to indoor environmental problems. Since conventional photocatalysts are responsive only to ultraviolet light, studies have been made to develop an indoor-light-active photocatalyst that makes effective use of indoor light, which room lights mainly emit, and thus demonstrates high photocatalytic performance indoors. The development has recently led to the commercialization of various indoor-light-active photocatalytic products, and there has been demand for the establishment of test methods to evaluate the performance of this type of photocatalyst.

This document is based on ISO 22197-1, a test method for air purification performance of photocatalytic materials under UV light, and is intended to provide a testing method to determine the performance of indoor-light-active photocatalytic materials with regards to the removal of nitric oxide, enabling swift distribution of photocatalytic products and thus contributing to a safe and clean environment.

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