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

Part 4:

Removal of formaldehyde

Document Preview

ISO 17168-4:2018

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	2
5 Principle	2
6 Apparatus	2
6.1 Test equipment.....	2
6.2 Test gas supply.....	3
6.3 Photoreactor.....	4
6.4 Light source.....	6
6.5 UV sharp cut-off filter.....	6
6.6 Analytical system.....	6
7 Test piece	6
8 Procedure	6
8.1 General aspects.....	6
8.2 Pretreatment of test piece.....	7
8.3 Preparation for the test.....	7
8.4 Pretest.....	8
8.5 Removal test.....	8
9 Calculation	8
10 Test method for test pieces with lower performance	9
11 Test report	9
Bibliography	11

Foreword

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

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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, with ISO 22197-1, ISO 22197-2 and ISO 22197-3 as the basis, is intended to provide a testing method to determine the performance of indoor-light-active photocatalytic materials with regards to the removal of formaldehyde, one of the most interesting aromatic volatile organic compound (VOC)-caused sick-house syndromes, enabling swift distribution of photocatalytic products and thus contributing to a safe and clean environment.

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