# ISO 22197-3:2019-10 (E)

## Fine ceramics (advanced ceramics, advanced techni cal ceramics) - Test method for air-purification performance of semiconducting p hotocatalytic materials - Part 3: Removal of toluene

## Contents

Page


Foreword ..... iv

1 Scope ..... 1

2 Normative references ..... 1

3 Terms and definitions ..... 1

4 Symbols ..... 2

5 Principle ..... 2

6 Apparatus ..... 3
6.1 Test equipment ..... 3
6.2 Test gas supply ..... 4
6.3 Photoreactor ..... 4
6.4 Light source ..... 6
6.5 Analytical system ..... 6

7 Test piece ..... 7

8 Procedure ..... 7
8.1 General aspects ..... 7
8.2 Pretreatment of test piece ..... 8
8.3 Toluene removal test ..... 8

9 Calculation ..... 9

10 Test method for test pieces with lower performance ..... 10

11 Test report ..... 10

Annex A (informative) Results of round-robin test ..... 11

Bibliography ..... 12