

ISO 13125:2013-03 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for antifungal activity of semiconducting photocatalytic materials

| 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 | Materials | 3 |
| 6.1 | Test fungi | 3 |
| 6.2 | Chemicals and implements | 3 |
| 7 | Apparatus | 4 |
| 7.1 | General | 4 |
| 7.2 | Irradiating equipment | 4 |
| 7.3 | Black light blue lamp (BLB lamp) | 4 |
| 7.4 | Ultraviolet light radiometer | 4 |
| 7.5 | Adhesive film | 4 |
| 7.6 | Glass pane | 4 |
| 7.7 | Test vessel | 4 |
| 8 | Test piece | 5 |
| 8.1 | Preparation of test pieces | 5 |
| 8.2 | Use of test pieces | 5 |
| 8.3 | Cleaning of test pieces | 5 |
| 9 | Procedure | 5 |
| 9.1 | Test temperature | 5 |
| 9.2 | Photoirradiation | 5 |
| 9.3 | Preparation of fungal spore suspension | 5 |
| 9.4 | Estimation of the number of surviving spore | 6 |
| 9.5 | UV Irradiation test | 6 |
| 10 | Calculation | 8 |
| 10.1 | Surviving spore concentration of recovery solution | 8 |
| 10.2 | Number of surviving spores | 8 |
| 10.3 | Validity of the test | 8 |
| 10.4 | Antifungal activity value in irradiation condition L | 9 |
| 10.5 | Antifungal activity value with UV irradiation by removing the effect in the dark | 9 |
| 11 | Test report | 9 |
| Bibliography | | 11 |