



BSI Standards Publication

Fine ceramics (advanced ceramics, advanced technical ceramics) — Measurement method of spectral transmittance of fine ceramics thin films under humid condition

National foreword

This British Standard is the UK implementation of ISO 17861:2014.

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A list of organizations represented on this committee can be obtained on request to its secretary.

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Fine ceramics (advanced ceramics, advanced technical ceramics) — Measurement method of spectral transmittance of fine ceramics thin films under humid condition

*Céramiques techniques — Méthode de mesurage de la transmittance
spectrale des films minces de céramiques fines en conditions humides*



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Foreword

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The committee responsible for this document is ISO/TC 206, *Fine ceramics*.

Introduction

Fine ceramics thin films are used in many applications such as anti-reflective coatings, infrared sensor cut filters, X-ray sensor cut filters, and band-pass filters for medical analysis equipment. Even though spectral transmittance of fine ceramics thin films are specified for each product, the refractive index and optical property change when water vapor or other vapor is adsorbed to the surface of fine ceramics thin films, because, generally, fine ceramics thin films have a columnar and voided structure. For this matter, an International Standard that could evaluate the reliability under a range of humidity was required. This International Standard provides test methods that will easily and accurately evaluate effects of humidity on optical properties of fine ceramic coatings. By establishing this International Standard, it aims for a rapid spread of this test method that will then lead to further growth of the industry.