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Standard

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**Fine ceramics (advanced ceramics,
advanced technical ceramics) —
Methods of test for ceramic coatings
— Determination of internal stress
in ceramic coatings by application
of the Stoney formula**

**Second edition
2025-06**

*Céramiques fines (céramiques avancées, céramiques techniques
avancées) — Méthodes d'essai des revêtements céramiques*

*— Détermination de la contrainte interne des revêtements
céramiques par application de la formule de Stoney*

ISO 19674:2025

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Foreword

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

This second edition cancels and replaces the first edition (ISO 19674:2017), which has been technically revised.

The main changes are as follows:

- in the Scope, the substrate is limited to isotropic ones;
- in [Clause 5](#), the contents of EXAMPLE are all deleted due to an incorrect [Formula \(2\)](#) and its weak correlation;
- in [7.5](#), the calculation for R_{exp} has been revised;
- at the end of [7.5](#), a schematic diagram ([Figure 1](#)) and an approximate calculation of R_{exp} from deflection has been added and the formula renumbered to Formula (3);
- [Annex B](#) has been added.

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