



**International
Standard**

ISO 28721-2

**Vitreous and porcelain enamels —
Glass-lined apparatus for process
plants —**

**Part 2:
Designation and specification of
resistance to chemical attack and
thermal shock**

*Émaux vitrifiés — Appareils émaillés pour les installations
industrielles —*

*Partie 2: Désignation et spécifications de la résistance à l'attaque
chimique et au choc thermique*

**Third edition
2025-02**

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 262, *Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 28721-2:2015), which has been technically revised.

The main changes are as follows:

- The normative references have been updated.
- Terms and definitions have been added.
- The crack formation temperature determination has been updated.

A list of all parts in the ISO 28721 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The performance of an enamelled article can be influenced by both the chemical composition of a vitreous enamel and the specific enamelling process. In order to ascribe measurable attributes to enamel besides its general designation, the manufacturer conducts standardized tests. The enamel is categorized in terms of the resulting resistance to corrosion and thermal shock.

The quality requirements specified in this document represent the minimum requirements a chemical enamel is expected to meet based on the current state of the art.

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