BS EN ISO 9717:2024

BSI Standards Publication

# Metallic and other inorganic coatings — Phosphate conversion coating of metals

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# National foreword

This British Standard is the UK implementation of EN ISO 9717:2024. It is identical to ISO 9717:2024. It supersedes BS EN ISO 9717:2017, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/33, Electrodeposited and related coatings.

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

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN ISO 9717

July 2024

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English Version

# Metallic and other inorganic coatings - Phosphate conversion coating of metals (ISO 9717:2024)

Revêtements métalliques et autres revêtements inorganiques - Couches de conversion au phosphate sur métaux (ISO 9717:2024)

Metallische und andere anorganische Überzüge - Phosphatumwandlungsüberzüge auf Metallen (ISO 9717:2024)

This European Standard was approved by CEN on 30 June 2024.

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## European foreword

This document (EN ISO 9717:2024) has been prepared by Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" in collaboration with Technical Committee CEN/TC 262 “Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys” the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.

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## Endorsement notice

The text of ISO 9717:2024 has been approved by CEN as EN ISO 9717:2024 without any modification.

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# Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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, Subcommittee SC 8, Chemical conversion 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 fourth edition cancels and replaces the third edition (ISO 9717:2017), which has been technically revised.

The main changes are as follows:

— the introduction has been clarified (1 bracket shifted);

— 5.1 Table 1 formatted and for Znph second line added to describe types of Znph; new Table 1 copied on Table C.1

— 5.2 and ff.: all terms are uniformed from “phosphate coating” or “conversion coating” to “phosphate conversion coating” (when applicable);

— 5.2 and ff.: “after-treatment” was changed to “post treatment”; other definitions and spelling changed according to ISO 2080;

— 6.3 Table 2: definition of T1 recharged, second sentence deleted (this is content of T2);

— 6.3: last sentence updated to describe impact of neutral salt spray test;

— 6.4: revision of 6.4, thickness measurement replaced by area related mass;

— Annex B: last sentence of B.1 deleted: Table B.1 updated;

— Annex B: Table B.1 and B.3 headlines updated;

— Annex B: Table B.4 headline updated;

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— Annex C: the element nickel has been added to C.1, C.2.3, C.2.5 and C.4; ICP was added as method to C.2.3; XRF was added as method to C.3.

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