

Corrosion protection of metals — Rinsed and non-rinsed chromate conversion coatings on aluminium and aluminium alloys

ICS 25.220.40

National foreword

This British Standard is the UK implementation of EN 12487:2007, incorporating corrigendum October 2008. It supersedes BS EN 12487:2000 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/38, Chemical conversion coatings.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Corrosion protection of metals - Rinsed and non-rinsed
chromate conversion coatings on aluminium and aluminium
alloys

Protection contre la corrosion des métaux - Couches de
conversion au chromate rincées et non rincées sur
l'aluminium et les alliages d'aluminium

Korrosionsschutz von Metallen - Gespülte und no-rinse
Chromatierüberzüge auf Aluminium und
Aluminiumlegierungen

This European Standard was approved by CEN on 24 February 2007.

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Foreword

This document (EN 12487:2007) has been prepared by Technical Committee CEN/TC 262 “Metallic and other inorganic coatings”, 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of an identical text or by endorsement, at the latest by October 2007, and conflicting national standards shall be withdrawn at the latest by October 2007.

This document supersedes EN 12487:2000.

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1 Scope

This European Standard specifies requirements for rinsed and non-rinsed chromate conversion coatings on aluminium and aluminium alloys intended to protect against corrosion and serve as a base for other coatings.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 485-1, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 1: Technical conditions for inspection and delivery*

EN 485-2, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 2: Mechanical properties*

EN 485-3, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 3: Tolerances on dimensions and form for hot-rolled products*

EN 485-4, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 4: Tolerances on shape and dimensions for cold-rolled products*

EN 515, *Aluminium and aluminium alloys – Wrought products – Temper designations*

EN 573-1, *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 1: Numerical designation system*

EN 573-2, *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 2: Chemical symbol based designation system*

EN 573-3, *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 3: Chemical composition*

EN ISO 3892, *Conversion coatings on metallic materials — Determination of coating mass per unit area — Gravimetric methods (ISO 3892:2000)*

EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227:2006)*

ISO 4519, *Electrodeposited metallic coatings and related finishes — Sampling procedures for inspection by attributes*

IEC 60603-1, *Connectors for frequencies below 3 MHz for use with printed boards - Part 1: Generic specification - General requirements and guide for the preparation of detail specifications, with assessed quality (IEC 60603-1:1991 + A1:1992)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

rinsed chromate coating

chromate coating that is rinsed in water prior to drying