

DIN 50979

**DIN**

ICS 25.220.40

**Metallic coatings –  
Electroplated zinc and zinc-alloy coatings on iron or steel with  
supplementary Cr(VI)-free treatment**

Metallische Überzüge –  
Galvanische Zink- und Zinklegierungsüberzüge auf Eisenwerkstoffen mit zusätzlichen  
Cr(VI)-freien Behandlungen

Document comprises 22 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original should be consulted as the authoritative text.



*A comma is used as the decimal marker.*

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## Foreword

This standard has been prepared by Working Committee NA 062-01-76 AA *Galvanische Überzüge* of the *Normenausschuss Materialprüfung* (Materials Testing Standards Committee).

## 1 Scope

This standard applies to electrodeposited zinc and zinc-alloy coatings on iron and steel with Cr(VI)-free passivation. The zinc-alloy coatings contain nickel or iron as alloying agents (referred to as zinc/nickel and zinc/iron coatings, respectively).

The main purpose of the coatings or coating systems is to protect iron and steel components against corrosion.

The standard prescribes the designations to be used for the above coating systems and specifies minimum corrosion resistances to be achieved in specified test procedures and the minimum coating thicknesses required to achieve them.

## 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 document (including any amendments) applies.

E DIN 50969-1:2008-02, *Prevention of hydrogen-induced brittle fracture of high-strength steel building elements — Part 1: Advice on the prevention*<sup>1)</sup>

DIN EN 1403, *Corrosion protection of metals — Electrodeposited coatings — Method of specifying general requirements*

DIN EN 15205, *Determination of hexavalent chromium in corrosion protection layers — Qualitative analysis*

DIN EN ISO 3497, *Metallic coatings — Measurement of coating thickness — X-ray spectrometric methods*

DIN EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

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1) Another test standard is under preparation.