

DIN EN ISO 9223



ICS 77.060

Together with
 DIN EN ISO 9224:2012-05,
 DIN EN ISO 9225:2012-05 and
 DIN EN ISO 9226:2012-05
 supersedes
 DIN EN 12500:2000-12

**Corrosion of metals and alloys –
 Corrosivity of atmospheres –
 Classification, determination and estimation (ISO 9223:2012)
 English translation of DIN EN ISO 9223:2012-05**

Korrosion von Metallen und Legierungen –
 Korrosivität von Atmosphären –
 Klassifizierung, Bestimmung und Abschätzung (ISO 9223:2012)
 Englische Übersetzung von DIN EN ISO 9223:2012-05

Corrosion des métaux et alliages –
 Corrosivité des atmosphères –
 Classification, détermination et estimation (ISO 9223:2012)
 Traduction anglaise de DIN EN ISO 9223:2012-05

Document comprises 24 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This standard has been prepared by Technical Committee ISO/TC 156 "Corrosion of metals and alloys" (Secretariat: SAC, China) and has been adopted as EN ISO 9223:2012 by Technical Committee CEN/TC 262 "Metallic and other inorganic coatings" (Secretariat: BSI, United Kingdom) within the scope of the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

The responsible German body involved in its preparation was the *Normenausschuss Materialprüfung* (Materials Testing Standards Committee), Working Committee NA 062-01-71 AA *Korrosion und Korrosionsschutz*.

The DIN Standards corresponding to the International Standards referred to in this document are as follows:

ISO 8044	DIN EN ISO 8044
ISO 9224	DIN EN ISO 9224
ISO 9225	DIN EN ISO 9225
ISO 9226	DIN EN ISO 9226
ISO 11303	DIN EN ISO 11303
ISO 11844-1	DIN EN ISO 11844-1
ISO 11844-2	DIN EN ISO 11844-2
ISO 11844-3	DIN EN ISO 11844-3

Amendments

This standard differs from DIN EN 12500:2000-12 as follows:

- the specifications are now given in four standards (DIN EN ISO 9223, DIN EN ISO 9224, DIN EN ISO 9225 and DIN EN ISO 9226);
- the classification of corrosivity has been extended by category CX (extreme) which exceeds category C5 (very high);
- dose-response functions have been introduced allowing the estimation of the corrosion loss of carbon steel, copper, zinc and aluminium from environmental data or information on environmental conditions and exposure situations;
- a density of 7,86 g/cm³ instead of 7,88 g/cm³ is now the basis for the calculation of the corrosion loss of carbon steel;
- the specifications have been updated to reflect the current state of technology;
- the standard has been editorially revised.

Previous editions

DIN EN 12500: 2000-12

National Annex NA (informative)

Bibliography

DIN EN ISO 8044, *Corrosion of metals and alloys — Basic terms and definitions*

DIN EN ISO 9224, *Corrosion of metals and alloys — Corrosivity of atmospheres — Guiding values for the corrosivity categories*

DIN EN ISO 9225, *Corrosion of metals and alloys — Corrosivity of atmospheres — Measurement of environmental parameters affecting corrosivity of atmospheres*

DIN EN ISO 9226, *Corrosion of metals and alloys — Corrosivity of atmospheres — Determination of corrosion rate of standard specimens for the evaluation of corrosivity*

DIN EN ISO 11303, *Corrosion of metals and alloys — Guidelines for selection of protection methods against atmospheric corrosion*

DIN EN ISO 11844-1, *Corrosion of metals and alloys — Classification of low corrosivity of indoor atmospheres — Part 1: Determination and estimation of indoor corrosivity*

DIN EN ISO 11844-2, *Corrosion of metals and alloys — Classification of low corrosivity of indoor atmospheres — Part 2: Determination of corrosion attack in indoor atmospheres*

DIN EN ISO 11844-3, *Corrosion of metals and alloys — Classification of low corrosivity of indoor atmospheres — Part 3: Measurement of environmental parameters affecting indoor corrosivity*