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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24513.3-2012

**Corrosion of metals and alloys -- Classification of low
corrosivity of indoor atmospheres -- Part 3: Measurement of
environmental parameters affecting indoor corrosivity**

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Foreword

GB/T 24513 "Atmospheric corrosion of metals and alloys - Classification of low corrosivity" is divided into three parts.

--- Part 1. Indoor atmospheric corrosion measurement and evaluation;

--- Part 2. Determination of indoor atmospheric corrosion;

--- Part 3. Determination of indoor environmental parameters of atmospheric corrosion.

This is Part 3 GB/T 24513 in.

Rules in this section in accordance with GB/T 1.1-2009 given draft.

This section uses the translation method equivalent to international standards ISO 11844-3:2006 "Corrosion of metals and alloys indoor atmospheric low corrosivity

Classification - Part 3. Impact of indoor environmental parameters measured atmospheric corrosion. "

This part is proposed by the China Iron and Steel Association.

This part of the National Steel Standardization Technical Committee (SAC/TC183) centralized.

This section drafted by. Institute of Metal Research, Metallurgical Industry Information Standards Institute, the national environmental corrosion materials science field

Research Center Research Station network.

1 Scope

This section GB/T 24513 specifies the method for determination of environmental parameters, the use of these parameters on the effects on metals and alloys indoor large Corrosive gas classification.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article

Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 19292.3-2003 measurements of metals and alloys - Corrosivity of atmospheres pollutants (ISO 9225.1992, IDT)

Indoor atmospheric corrosion GB/T 24513.1-2009 metals and alloys - Classification of low corrosivity Part 1. Indoor atmospheric corrosion

Measurement and Evaluation (ISO 11844-1.2006, IDT)

ISO 7708.1995 sample size fraction definitions for health-related air quality (Airquality-Particlesize

fractiondefinitionsforhealth-relatedsampling)

EN12341.1998 air quality coefficient of suspended particles PM10 standard method of determination and verification of the equivalence of measurement standards

The field test program

(Airquality-DeterminationofthePM10fractionofsuspendedparticulatematter-

Referencemethodandfieldtestproceduretodemonstratereferenceequivalenceofmeasurement methods)

Principle 3

Different combinations of environmental parameters affecting indoor atmospheric corrosion. Before testing methods to determine the need for possible environmental effects of the source

Head of information. To characterize indoor atmospheric corrosion using environmental parameters than with the metal sample to measure corrosion are much more complex, but

In many cases, the measured environmental parameters to determine the corrosive environment for a good indication, and combined with GB/T 24513.1-

2009 provides information for determining the material under corrosive environment selected categories have sound indication.

4 Environmental Parameters

Compared with the characterization of atmospheric corrosion outdoors, often more complex to use a combination of environmental parameters characterizing indoor atmospheric

corrosion. Typically

Two sets of parameters to be measured.

--- Humidity and temperature;

--- Air pollutants, such as gases and particles.

Temperature and humidity fluctuations, especially in the high humidity, it may lead to condensation on cold surfaces. For occur indoors

Corrosion, the frequency and time of condensation is a very important factor.

GB/T 24513.3-2012/ISO 11844-3.2006