



JAPANESE
INDUSTRIAL
STANDARD

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Japanese Standards Association

JIS Z 2383 : 1998

**Standard specimens of metals and
alloys, Determination of corrosion rate
of standard specimens for the evalua-
tion of corrosivity of atmospheres**

ICS 13.040.20 ; 77.060

Descriptors : corrosion, atmospheric corrosion, pollution, particulate air pollutants,
corrosion tests, environmental testing, control samples, metals

Reference number : JIS Z 2383 : 1998 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Standard specimens of metals and alloys, Determination of corrosion rate of standard specimens for the evaluation of corrosivity of atmospheres

Introduction This Japanese Industrial Standard was made by translating **ISO 9226 Corrosion of metals and alloys—Corrosivity of atmospheres—Determination of corrosion rate of standard specimens for evaluation of corrosivity** published in 1992 as the first edition and in accordance with the form of the original International Standard. In **ISO 9226**, the introduction says “The characterization of an atmospheric corrosion test site or of a service location with respect to its corrosivity can be accomplished by determining the corrosion rate of standard specimens exposed for one year to the atmosphere at the respective location (direct corrosivity evaluation). The standard specimens are flat plate or open helix specimens of the six standard structural materials : aluminium, copper, zinc, steel, atmospheric corrosion resisting steel and stainless steel. These methods represent an economical way for corrosivity evaluation, taking into account all local environmental influences.”

This Standard is titled “*Standard specimens of metals and alloys, Determination of corrosion rate of standard specimens for the evaluation of corrosivity of atmospheres*” and part of specified contents differs from the original International Standard according to the actual condition in our country.

The parts underlined (dotted) in this Standard are the matters differing from or not included in the original International Standard.

Annex A to this Japanese Industrial Standard is informative reference.

1 Scope This Japanese Industrial Standard specifies methods which can be used for the measurement of standard specimens of metals and alloys for the evaluation of corrosion of atmospheres and for the determination of corrosion rate of them.

Remarks : The values obtained from the measurements (corrosion rates for the first year of exposure) are to be used as classification criteria for the evaluation of atmospheric corrosivity according to **ISO 9223**.

WARNING : Some of the procedures included in this Standard entail the use of **potentially hazardous chemicals. It is emphasised that all appropriate safety precautions should be taken.**

2 Normative references The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS G 3101 *Rolled steels for general structure*

JIS G 3114 *Hot-rolled atmospheric corrosion resisting steels for welded structure*

JIS G 3532 *Low carbon steel wires*

JIS G 4305 *Cold rolled stainless steel plates, sheets and strip*

JIS G 4309 *Stainless steel wires*