Draft for Public Comment

Form 36

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Interested committees:

Title: Draft BS ISO 16364 Corrosion of Metals and Alloys - Guidelines for Galvanic Corrosion Control.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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DRAFT International Standard

ISO/DIS 16364

Corrosion of Metals and Alloys - Guidelines for Galvanic Corrosion Control

ICS: 77.060

ISO/TC **156**

Secretariat: **SAC**

Voting begins on:
2025-06-09

Voting terminates on:
2025-09-01

This document is circulated as received from the committee secretariat.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 156, Corrosion of metals and alloys. WG6, General principles of testing and data interpretation.

This is the first edition of guideline for galvanic corrosion suppression.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

Use of multi-materials, in which not only metal materials but also ceramics, semiconductors, carbon fiber and resins are utilized in structures, is advancing rapidly in many industrial fields such as electronic components, automobiles, aircraft, plant systems and infrastructure, among others. Where corrosion is concerned, this has increased the possibility of galvanic corrosion, heightening the necessity of a comprehensive, cross-sectorial guideline for galvanic corrosion suppression that includes materials and their environments. However, the existing ISO standards do not contain clear provisions concerning galvanic corrosion or standards other than bolting of dissimilar materials. On the other hand, boundary element method (BEM) and finite element method (FEM) are techniques that enable modelling and numerical calculation of galvanic corrosion. Simulations by these techniques have progressed and are already used in practical applications. Moreover, accompanying the application of multi-materials, carbon and other non-metallic materials eluted from ceramics, carbon fibre reinforced plastic (CFRP) or resins are related to galvanic corrosion and have become a critical issue in automobiles, aircraft, etc.

Under these circumstances, a cross-sectorial ISO guideline on galvanic corrosion, with its many inherent issues, is necessary.

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