

---

---

**Steel wire and wire products — Non-ferrous metallic coatings on steel wire —**

**Part 2:  
Zinc or zinc-alloy coating**

*Fils et produits tréfilés en acier — Revêtements métalliques non ferreux sur fils d'acier —*

*Partie 2: Revêtements de zinc ou d'alliages de zinc*

**Document Preview**

ISO 7989-2:2021

<https://standards.iteh.ai/catalog/standards/iso/298c19b2-b902-454d-8443-66b651a063d7/iso-7989-2-2021>



**iTeh Standards**  
**(<https://standards.iteh.ai>)**  
**Document Preview**

[ISO 7989-2:2021](https://standards.iteh.ai/catalog/standards/iso/298c19b2-b902-454d-8443-66b651a063d7/iso-7989-2-2021)

<https://standards.iteh.ai/catalog/standards/iso/298c19b2-b902-454d-8443-66b651a063d7/iso-7989-2-2021>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Coating requirements</b> .....	<b>2</b>
4.1 Requirements for the coating material.....	2
4.2 Requirements relating to coating on the wire.....	2
4.2.1 Coating mass per unit area.....	2
4.2.2 Coating requirements to salt-spray test.....	3
4.2.3 Appearance of coating.....	4
4.2.4 Dipping test.....	4
4.2.5 Special finishes.....	5
4.2.6 Adherence of coating.....	5
<b>5 Test conditions</b> .....	<b>6</b>
5.1 Selection of samples.....	6
5.2 Determination of coating mass per unit area.....	7
5.2.1 General.....	7
5.2.2 Gravimetric method.....	7
5.2.3 Gaseous volumetric method.....	8
5.3 Dipping test.....	13
5.3.1 Principle.....	13
5.3.2 Reagents.....	13
5.3.3 Preparation of test piece.....	13
5.3.4 Test procedure.....	13
5.3.5 Interpretation of results.....	14
<b>Bibliography</b> .....	<b>15</b>

ISO 7989-2:2021

<https://standards.iteh.ai/catalog/standards/iso/298c19b2-b902-454d-8443-66b651a063d7/iso-7989-2-2021>

## 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 17, *Steel wire rod and wire products*.

This second edition cancels and replaces the first edition (ISO 7989-2:2007), which has been technically revised.

The main changes compared to the previous edition are as follows:

- reference is also made to ASTM B997 for Zn-Al alloy coatings (see [4.1](#));
- coating mass Class E is introduced for zinc-aluminium coatings (see [Table 1](#));
- coating requirements to salt-spray test is added, see [4.2.2](#);
- dipping test better specified for Zinc-Alu alloy coatings (see [Table 3](#));
- correction of formulae in [5.2.3.6](#).

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](http://www.iso.org/members.html).