
**Corrosion of metals and alloys —
Stress corrosion testing —**

**Part 10:
Reverse U-bend method**

*Corrosion des métaux et alliages — Essais de corrosion sous
contrainte —*

Partie 10: Méthode d'essai par cintrage en U inversé

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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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This document was prepared by Technical Committee ISO/TC 156, *Corrosion of metals and alloys*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 262 *Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 7539-10:2013), which has been technically revised. The main changes compared with the previous edition are as follows:

- the specimen preparation, i.e. how RUB specimens are machined, bent and fastened, has been revised in [Clause 5](#) and [Annexes A](#) and [B](#);
- the experimental procedure of how specimens are tested in a multiple immersion test with different periods or in a serial immersion test has been revised in [Clause 6](#);
- the post-exposure evaluation of how specimens are observed has been revised in [Clause 7](#);
- information has been added for the test report in [Clause 8](#);
- [Figures A.1](#), [A.2](#) and [B.3](#) and [Table B.1](#) have been revised;
- new [Figures A.3](#) and [B.4](#) have been added to illustrate the RUB specimen before and after fastening.

A list of all parts in the ISO 7539 series can be found on the ISO website.

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.