
Welding consumables — Test methods —
Part 2:
Preparation of single-run and two-run
technique test specimens in steel

Produits consommables pour le soudage — Méthodes d'essai —
Partie 2 : Préparation d'éprouvettes en une ou deux passes en acier



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 15792 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15792-2 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 3, *Welding consumables*.

ISO 15792 consists of the following parts, under the general title *Welding consumables — Test methods*:

- *Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys*
- *Part 2: Preparation of single-run and two-run technique test specimens in steel*
- *Part 3: Classification testing of positional capacity and root penetration of welding consumables in a fillet weld*

Introduction

Consumables for both submerged arc welding and metal arc welding with tubular cored electrodes can be suitable for welding by the single- or two-run technique and the methods for testing and classification are specified. When a welding consumable is offered for use by these techniques, it should be noted that all-weld metal test pieces may not be required by the consumable classification standard.

Test conditions prescribed and results required should not be considered to be requirements or expectations for a procedure qualification.

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Welding consumables — Test methods —

Part 2:

Preparation of single-run and two-run technique test specimens in steel

1 Scope

This part of ISO 15792 specifies the preparation of butt weld test pieces and specimens. The purpose is to define test methods in order to determine strength and impact strength of the welded joint when testing welding consumables with single-run and two-run technique, not suitable for electro-slag or electro-gas welding.

This part of ISO 15792 is applicable to welding consumables for arc welding of steel.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 15792. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 15792 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 4136:2000, *Fusion-welded butt joints in steel — Transverse tensile test*.

ISO 9016:2000, *Destructive tests on welds in metallic materials — Impact tests — Test specimen location, notch orientation and examination*.

ISO 13916, *Welding — Guidance on the measurement of preheating temperature, interpass temperature and preheat maintenance temperature*.

3 General requirements

Welding consumables to be tested shall be representative of the manufacturer's products to be classified or tested. Test pieces shall be prepared as described below.

4 Test plate material

The material to be used shall be in accordance with the material defined in the appropriate consumable classification standard.