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**Welding consumables — Procurement of  
filler materials and fluxes**

*Produits consommables pour le soudage — Approvisionnement en  
matériaux d'apport et flux*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 14344 was jointly prepared by the International Institute of Welding, Commission II, *Arc welding and filler metals*, and Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 3, *Welding consumables*. IIW has been approved as an international standardizing body in the field of welding by the ISO Council.

This second edition cancels and replaces the first edition (ISO 14344:2002). Compared to the previous edition, normative reference to ISO 9001 has been deleted and some lot definitions have been revised.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 3 via your national standards body. A complete listing of these bodies can be found at [www.iso.org](http://www.iso.org).

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# Welding consumables — Procurement of filler materials and fluxes

## 1 Scope

This International Standard specifies tools for communication between a purchaser and a supplier of welding consumables within quality systems, such as those based upon ISO 9001<sup>[1]</sup>.

In production, the components of welding consumables are divided into discrete, predetermined quantities so that satisfactory tests with a sample from that quantity will establish that the entire quantity meets specification requirements. These quantities, known by such terms as heats, lots, blends, batches and mixes, vary in size according to the manufacturer. For identification purposes, each manufacturer assigns a unique designation to each quantity. This designation usually consists of a series of numbers or letters, or combinations thereof, which will enable the manufacturer to determine the date and time (or shift) of manufacture, the type and source of the raw materials used, and the details of the procedures used in producing the welding consumable. This designation stays with the welding consumable and can be used to identify the material later, in those cases in which identification is necessary.

This International Standard, together with an applicable International Standard or other standard for welding consumables, provides a method for preparing those specific details needed for welding consumable procurement which consist of:

- a) the welding consumable classification (selected from the applicable International Standard or other standard for welding consumables);
- b) the lot classification (selected from Clause 4);
- c) the testing schedule (selected from Clause 5).

Selection of the specific welding consumable classification, lot classification, and testing schedule depends upon the requirements of the application for which the welding consumable is being procured.

This International Standard does not apply to non-consumable electrodes or shielding gases.

## 2 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

### 2.1

#### **dry batch**

quantity of dry ingredients mixed at one time in one mixing vessel

**NOTE** Liquid binder, when added to a dry batch, produces a wet mix. A dry batch can be divided into smaller quantities, in which case addition of the liquid binder produces as many wet mixes as there are smaller quantities.