

INTERNATIONAL STANDARD

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Welding consumables — Shielding gases for arc welding and cutting

*Produits consommables pour le soudage — Gaz de protection pour
le soudage et le coupage à l'arc*



Reference number
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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.

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.

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Welding consumables — Shielding gases for arc welding and cutting

1 Scope

This International Standard is applicable to gas shielded arc welding and cutting processes with gases and gas mixtures defined within. Applications include, but are not limited to:

- tungsten inert gas (TIG) welding;
- metal active gas (MAG) welding;
- metal inert gas (MIG) welding;
- plasma arc welding;
- plasma arc cutting;
- back shielding.

The purpose of this International Standard is to classify shielding gases according to their chemical properties as a base for the approval of shielding gas and filler wire combinations.

Gas purities and mixing tolerances are also specified.

2 Properties of gases

The physical and chemical properties are listed in table 1.