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Gas welding equipment — Small kits for gas brazing and welding

*Matériel pour le soudage au gaz — Petits ensembles pour le brasage et le
soudage au gaz*

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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.

International Standard ISO 14112 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 8, *Equipment for gas welding, cutting and allied processes*.

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Gas welding equipment — Small kits for gas brazing and welding

1 Scope

This International Standard specifies safety requirements for the construction of small kits for brazing, soldering and welding for non-professional use.

This International Standard is applicable to appliances whose welding equipment is completely set up in the factory and which use a liquefied gas or gas mixture as combustible gas, and compressed oxygen, air or an air/oxygen mixture for combustion.

It is applicable to appliances which use gases contained in refillable containers having a maximum water capacity of 5 litres, or in disposable containers with maximum water capacity of 1 litre.

It is not applicable to the following:

- appliances using acetylene or hydrogen as combustible gas;
- air-aspirated appliances;
- appliances working with an oxygen generator;
- appliances working by electrolysis.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2503:1983, and Add. 1:1984, *Pressure regulators for gas cylinders used in welding, cutting and allied processes.*

ISO 3821:1992, *Welding — Rubber hoses for welding, cutting and allied processes.*

ISO 5171:1995, *Pressure gauges used in welding, cutting and allied processes.*

ISO 5172:1995, *Manual blowpipes for welding, cutting and heating — Specifications and tests.*

ISO 5175:1987, *Equipment used in gas welding, cutting and allied processes — Safety devices for fuel gases and oxygen or compressed air — General specifications, requirements and tests.*

ISO 9090:1989, *Gas tightness of equipment for gas welding and allied processes.*

ISO 9539:1988, *Materials for equipment used in gas welding, cutting and allied processes.*

ISO 10297:—¹⁾, *Gas cylinder valves — Specifications and testing.*

ISO 11118:—¹⁾, *Non-refillable metallic gas cylinders in sizes up to 5 litres — Specification and test methods.*

ISO 12170:—¹⁾, *Gas welding equipment — Thermoplastic hoses for welding and allied processes.*

EN 417:1992, *Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances — Construction, inspection, testing and marking.*

EN 521:—¹⁾, *Dedicated liquefied petroleum gas appliances — Portable appliances operating at vapour pressure from liquefied petroleum gas containers.*

1) To be published.