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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 15579.13-2016

**Arc welding equipment -- Part 13: Welding clamp
(English Translation)**

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Foreword

GB 15579 "arc welding equipment" is divided into 13 parts.

- Part 1. Welding power supply;
- Part 2. Liquid cooling systems;
- Part 3. arc and stabilizer;

- Part 4. Periodic inspection and testing;
- Part 5. Wire feeders;
- Part 6. Restricted equipment;
- Part 7. torch (gun);
- Part 8. Gas line installations for welding and plasma cutting systems;
- Part 9. Installation and use;
- Part 10. Electromagnetic compatibility (EMC) requirements;
- Part 11. welding tongs;
- Part 12. Welding cable coupling devices;

Part 13. Welding clamps.

This section is part 13 of GB 15579.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to IEC 60974-13.:2011 "Arc welding equipment Part 13. Welding clamps".

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

GB/T 2900.83-2008 Electrotechnical terminology and magnetic devices (IEC 60050-151.:2001, IDT)

--- GB 15579.1-2013 Arc welding equipment - Part 1. Welding power supply (IEC 60974-1.:2005, IDT) this part is made by China Electrical Equipment Industry Association.

This part of the National Welding Technology Standardization Technical Committee (SAC/TC70) centralized.

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Arc welding equipment - Part 13. Welding clamps

1 Scope

This part of GB 15579 is applicable to clamps for arc welding that are electrically connected to the workpiece without the use of the tool.

This part does not apply to clamps for underwater welding and plasma cutting.

This section specifies the safety requirements and performance requirements for welding clamps.

This part does not specify the requirements for welding cables.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article. For undated references, the latest edition (including all modifications) applies to this document.

IEC 60050-151 International Electrotechnical Terminology Chapter 151. Electrical and Magnetic Devices [International Electrotechnical Vocabulary (IEV) -Part 151. Electrical and magnetic devices] IEC 60974-1 arc welding equipment - Part 1. Arc welding power supply (Arc welding equipment -Part 1. Welding power sources)

3 Terms and definitions

IEC 60050-151 and IEC 60974-1 and the following terms and definitions apply to this document.

Welding clamp

Worker folder (US) work clamp Reflow Current Clamp (UK) return current clamp A device that connects a welding cable to a workpiece.

Rated current the manufacturer gives a current that does not exceed its permissible temperature rise at 60% duty cycle.

Stop device

When the welding clamp is properly connected to the workpiece, the welding clamp is positioned and the accidental release of a mechanical structure is prevented.

4 Environmental conditions

The welding clamp shall be capable of operating normally under the following environmental conditions.

a) Ambient air temperature range.

During welding. -10 °C ~ 40 °C;

b) Air relative humidity.