

ICS 29.240.20

CCS K 47



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

GB/T 18037-2025

Replacing GB/T 18037-2008

**Basic technical requirements and design guidelines for live
working tools, equipment and devices**

带电作业工具设备基本技术要求与设计导则

Issued on: October 31, 2025

Implemented on: May 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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1 Scope

GB/T 18037-2025 is the Chinese national standard covering the tools used on energised lines - the insulation and the minimum approach distances, the mechanical strength with its safety factor, the electrical and mechanical type tests, and the design rules for anything new that is put into a lineman's hands. It replaces GB/T 18037-2008, under the China Electricity Council. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 18037-2008.

This document specifies the material properties and selection requirements for live-line working tools and equipment, as well as their mechanical performance design, electrical performance design, structural and working... Requirements for art design, logo and packaging design. This document applies to the selection of materials and equipment for live-line working at voltage levels of AC 1000kV and below, and DC ± 1100 kV and below. design.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 311.1 Insulation Coordination Part

3 Terms and Definitions

The terms and definitions defined in GB/T 2900.55 and GB/T 14286, as well as the following terms and definitions, apply to this document.

16 Appendix A (Informative) Serialized Naming of Major Tools and Equipment

19 Appendix B (Informative) Electrical Performance Design Parameters for Live-Line Working Tools

21 Appendix C (Normative) Test Method for Immunity to Potential-Transferred Arc Discharge 23

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document supersedes GB/T 18037-2008 "Basic Technical Requirements and Design Guidelines for Live Working Tools" and is consistent with GB/T 18037-2008. In comparison, aside from structural adjustments and editorial changes, the main technical changes are as follows:

---The scope of application has been changed (see Chapter 1, Chapter 1 of the.2008 edition);

---The terminology and definitions for traction equipment, passenger-carrying equipment, and insulating shielding equipment have been revised (see 3.3, 3.4, 3.5, and

3.1.9 of the.2008 edition). Sections

3.1.6 have been amended to include terminology and definitions for clamps, current-carrying tools, electric field protection equipment, insulation protection equipment, and arc protection equipment. Meaning (see 3.1, 3.2, 3.6, 3.7, 3.8);

---Added categorization and naming (see Chapter 4);

---General requirements for insulation materials have been added (see 5.1.1);

---The performance requirements for insulating rods, insulating tubing, and insulating ropes have been revised (see 5.1.2.2, 5.1.2.3, and 5.1.2.4,.2008 edition). 4.1.1, 4.1.2, 4.1.3, 4.1.4, 4.1.5, 4.2.1, 4.2.2, 4.2.4, 4.3.2, 4.3.3, 4.3.4);

---Added performance requirements for metallic materials (see 5.2);

---Changes have been made to the material selection for load-bearing tools, operating tools, arc-extinguishing tools, insulating shielding tools, electric field protection equipment, and insulating protection equipment. Refer to the regulations (see 6.1, 6.2, 6.4, 6.7, 6.8.1, 6.8.2, and 4.4.1, 4.4.5, 4.4.6, 4.4.9, 4.4.12,

4.4.13 of the.2008 edition). 4.4.14);

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