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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 47350-2026

Classification and assessment of electrical contact materials

电接触材料分类及判定

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Foreword

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. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Electrical Equipment Industry Association. This document is under the jurisdiction of the National Technical Committee on Standardization of Electrical Alloys (SAC/TC228). This document was drafted by: Guilin Electrical Science Research Institute Co., Ltd., Zhejiang Fuda Alloy Materials Technology Co., Ltd., and Guilin Jingge Electric Co., Ltd. Electronic Materials Technology Co., Ltd., Shaanxi Srui New Materials Co., Ltd., Foshan Tongbao Precision Alloy Co., Ltd., Hebei University of Technology Xue, Wenzhou Juxing Technology Co., Ltd., Anhui Xinrui New Materials Co., Ltd., Suzhou Xierfu New Materials Co., Ltd., Sanyoulian Zhongda Group Co., Ltd., China Electric Power Research Institute Co., Ltd., Zhejiang Provincial Metallurgical Research Institute Co., Ltd., Wenzhou Hongfeng Electrical Alloy Joint-stock company, Tianshui Xi'an Great Wall Alloy Co., Ltd., Henan Kefeng New Materials Co., Ltd., Zhejiang Zhixin New Materials Co., Ltd. Zhejiang Songfa Composite New Materials Co., Ltd., Shenyang Jinchang Lanyu New Materials Co., Ltd., and Guizhou Zhongxi (Shanghai) New Materials Technology Co., Ltd. Company, Foshan Nop Materials Technology Co., Ltd., Ningbo Electrical Alloy Materials Co., Ltd., Zhejiang Naier Alloy Technology Co., Ltd., Sichuan Zhiqi Precious Metals Co., Ltd., Wujiang Dongfeng Electrical Equipment Co., Ltd., Kunming University of Science and Technology, Jiyuan Yujin Target Technology Co., Ltd., Zhejiang Yongyu Metal Fittings Co., Ltd., Hongqi Group Power Fittings Co., Ltd., Zhejiang Yintong Electric Co., Ltd., Zhejiang Anrui Electric Co., Ltd., Zhejiang Huiyong Electric Power Equipment Co., Ltd., Huizhou Magnet New

Energy Technology Co., Ltd., Nantong Chengyede Precision Components Co., Ltd., Hunan Huajing Powder Materials Co., Ltd., Sufu (Shenzhen) Technology Co., Ltd., Wenzhou Deyin New Materials Co., Ltd., Shandong Aerospace Zhenghe Electronics Co., Ltd. The main drafters of this document are. Cui Defeng, Bai Xiaoping, Chen Guangming, Wang Xiaojun, Huo Zhiwen, Wang Jingqin, Huang Guanglin, Zhang Xiaohui, and Yang Yucai. Qin Ping, Ding Yi, Yu Xianwang, Wu Xinhe, Zhang Hongjun, Zhang Yan, Cao Yongping, Zhao Chengwei, Yang Yongze, Li Guowei, Wang Yongye, Zhang Shunle, Chen Chun, Teng Wensong Jin Hualin, Zhou Xiaolong, Shang Weiguo, Huang Haidan, Wang Chunyu, Dai Zhong, Gao Yong, Gong Liang, Li Heng, Huang Minqing, Sun Zhifang, Li Zhiguo, Chen Lingxiao, Zhao Jun Huang Lanxia, Liu Beiyang, Yan Peitao, Liu Tan, Jin Yichen, Han Yuling, Pan Junyi, Ye Hongmei. Classification and determination of electrical contact materials

1 Scope

GB/T 47350-2026 is the Chinese national standard covering the materials that make and break current - silver alloys and composites, copper and refractory metal combinations - classified by system and application, with the criteria by which one is judged suitable for a duty. First edition, in force since 1 October 2026, and it belongs with the silver-tin oxide specification GB/T 20235-2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the China Electrical Equipment Industry Association. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document establishes the classification principles for electrical contact materials and specifies the classification and determination methods for electrical contact materials. This document applies to the research, development, production, testing, application, and statistical analysis of electrical contact materials.

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 228.1-2021 Metallic materials-Tension testing-Part

3 Determination of Platinum Content

GB/T 15072.4-2025 Chemical Analysis Methods for Noble Metal Alloys - Part

4 Determination of Palladium Content

GB/T 15072.6-2025 Chemical Analysis Methods for Noble Metal Alloys - Part

6 Determination of Iridium Content

GB/T 15072.8-2008 Chemical Analysis Methods for Precious Metal Alloys - Determination of Copper Content in Gold, Palladium and Silver Alloys - Thiourea Precipitation - EDTA Complexometric back titration

GB/T 15072.10-2008 Chemical Analysis Methods for Precious Metal Alloys - Determination of Nickel Content in Gold Alloys - EDTA Complexometric Back Titration Method

GB/T 15072.13-2008 Chemical Analysis Methods for Noble Metal Alloys - Determination of Tin, Cerium and Lanthanum Contents in Silver Alloys - Inductive Coupling, etc. Ionic atomic emission spectrometry

GB/T 15072.17-2008 Chemical Analysis Methods for Noble Metal Alloys - Determination of Tungsten Content in Platinum Alloys - Tungsten Trioxide Gravimetric Method

GB/T 15159 Precious metals and their alloys composite strips

GB/T 16921 Metallic Coatings - X-ray Spectroscopy for Coating Thickness Measurement

GB/T 24268 Chemical Analysis Methods for Silver Tin Oxide Electrical Contact Materials

GB/T 38145 Determination of Gold, Platinum and Palladium Content in High-Content Precious Metal Alloy Jewelry - ICP Subtraction Method

JB/T 4107 (all parts) Chemical analysis methods for electrical contact materials

JB/T 6237.1-2008 Chemical Analysis Methods for Silver Powder in Electrical Contact Materials Part

1.Silver Chloride Precipitation - p-Dimethylaminomethyl Determination of Silver Content by Benzylrhodanine Spectrophotometry