

ICS 17.200.20

CCS N11



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

GB/T 1598-2010

Replacing GB/T 2902-1998

**Platinum-10%Rhodium/Platinum thermocouple wires -
Platinum-13%Rhodium/Platinum thermocouple wires -
Platinum-30%Rhodium/Platinum-6%Rhodium thermocouple wires**

铂铑10-铂热电偶丝、铂铑13-铂热电偶丝、铂铑30-铂铑6热电偶丝

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Foreword

This standard replaces GB/T 3772-1998 "platinum and rhodium 10 - platinum thermocouple wire", GB/T 1598-1998 "platinum and rhodium 13 - platinum thermocouple wire" and GB/T 2902-1998 "platinum and rhodium 30 - 6 platinum and rhodium thermocouple wires" This standard GB/T 3772-1998, GB/T 1598-1998, GB/T 2902-1998 compared to the standard three main changes are as follows:

- This revision is three standards into one standard;
- Thermal emf tolerance of the use of the relevant provisions of ASTM E230-2003;
- Unevenness of the thermal electromotive force at both ends of the sample tested by the test to continuous tests. Appendix A of this standard and Appendix B is an informative annex. The standard proposed by China Machinery Industry Federation. The standard instrument functional materials by the National Standardization Technical Committee (SAC/TC419) centralized. This standard is drafted by: Chongqing Instrument Materials Research Institute. Participated in the drafting of this standard. Your research Platinum Ltd., Ningbo Ao Kawasaki Automation Instrumentation Co., Ltd., Yueqing City, east China Instrument Watch factory in Kunshan Wantong Instrument Materials Co., Ltd. Shanghai faction Landes Precious Metals Limited, China Testing Technology Research Institute, Chongqing Sichuan Instrument Automation Ltd. Metal Functional Materials Branch, Shaoxing Chunhui Automation Instrumentation Co., Ltd., Anhui Rand Group Co., Ltd., China Aviation Industry Corporation Beijing Institute of Aeronautical Materials, northwest Gansu Baiyin Copper Co., Ltd., Kunming generous Automatic Control Section Technology Limited. The main drafters of this standard. Chen Lixin, Liu Qingbin, Ho Ying Lun Huang Shaohua, Sun Jiong, Wu Xinghua, I was big, Xue Zheng Hui, EDUCATION JOURNAL WAN Wei Jian, Zou Hua, Yin Shing House, Liu Dabo, Yang Yonggang, Li Fuhong. This standard replaces the standards previously issued as follows:
- GB 3772-1983, GB/T 3772-1998;
- GB 1598-1979, GB/T 1598-1986, GB/T 1598-1998;

--- GB 2902-1982, GB/T 2902-1998. Platinum and rhodium 10 - platinum thermocouple wire, Platinum and rhodium 13 - platinum thermocouple wire, Platinum and rhodium 30 - 6 platinum and rhodium thermocouple wires

1 Scope

GB/T 1598-2010 is the Chinese national standard on platinum-10%rhodium/platinum thermocouple wires - platinum-13%rhodium/platinum thermocouple wires - platinum-30%rhodium/platinum-6%rhodium thermocouple wires, in the field of metrology and measurement. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 1 December 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2011. Classification: ICS 17.200.20, CCS N11. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the platinum and rhodium 10 - platinum thermocouple wire, platinum and rhodium 13 - platinum thermocouple wire, platinum and rhodium 30 - 6 platinum and rhodium thermocouple wire Products, Technology Operation requirements, test methods, inspection rules, modes of supply, packaging and marking. This standard applies to the manufacture of platinum and rhodium 10 - platinum thermocouple, platinum and rhodium 13 - platinum thermocouple and platinum and rhodium 30 - 6 platinum and rhodium thermocouple alloy wire (hereinafter Said dual wire).

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 5977 resistance thermometers with platinum wire

GB/T 16701 precious metal, metal thermocouple wire Thermal EMF Test Method

GB/T 16839.1 Thermocouples Part 1. indexing table

JB/T 6819.2 meter material term temperature materials

3 Terms and Definitions

Terms and definitions JB/T 6819.2 established apply to this standard.

4 Products

4.1 Product names and chemical composition Product name, code and the name of the chemical composition as shown in Table 1. Table

1 Categories and chemical composition Product Name polarity code Nominal chemical composition /% Pt Rh Platinum-rhodium alloy wire cathode 10 SP 90

10 Platinum wire anode SN, RN 100 - 13 platinum-rhodium alloy wire cathode RP 87

13 Platinum-rhodium alloy wire cathode 30 BP 70 30 6 platinum and rhodium alloy negative electrode wire BN 94 6

4.2 grade thermocouple wire By the use of different requirements and pyroelectric properties, S-type thermocouple wire, R-type thermocouple wire into standard grade, grade I, II grade, III grade, B-type thermocouple wire into standard Associate level, II grade, III grade.

4.3 dual wire recommended upper temperature limit Various types of thermocouple wire recommended upper temperature limit as shown in Table 2.