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

GB/T 18762-2017

Replacing GB/T 18762-2002

**Specification for filler brazing materials made of precious metal
and their alloy**

贵金属及其合金钎料规范

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 18762-2002 "Precious metals and their alloys". This standard compared with GB/T 18762-2002, the main technical changes are as follows:

- increased BAg71.7CuNiLi780/800, BAg30Cu780/945, BAg66CuNi785/820, BAg63CuNi785 / Lt;/RTI & gt; 800, BAg71CuP700/780, BAg68CuSn672/746, BAg60CuIn650/740, BAg90In850/887, BAg60CuZn, BAg49CuZnMnNi625/690, BAg37.5CuZnMn725/810 a total of 15 silver alloy solder grades;
- delete the BAg72CuLi780/800, BAg77CuNi780/820, BAg58CuInSn, BAg30CuP a total of four silver alloy brazing Grade number
- The silver alloy containing Pd alloy grades BAg68CuPd807/810, BAg58CuPd824/852, BAg65CuPd845/880, BAg52CuPd867/900, BAg54CuPd900/950 a total of five classified into the palladium solder, an increase of BPd37NiCrSiB818/992 Palladium alloy solder grade 1;
- Added BAu81.5CuNi910/930, BAu88Pd1260/1300, BAu92Pd1190/1230, BAu50PdNi1121, Lt;/RTI & gt; BAu42Cu980/1000 a total of nine gold alloy solder grades;
- the original standard wire diameter range > 0.1mm ~ 0.2mm, allowable deviation of -0.03mm and > 0.2mm ~ 0.5mm, allowing Deviation -0.04mm, combined revised to > 0.1mm ~ 0.5mm, allowable deviation of -0.02mm; wire diameter range from > 1.0mm ~ 2.0mm, allowable deviation of -0.06mm and > 2.0mm ~ 3.0mm, allowable deviation of -0.07mm, combined Revised to > 1.0mm ~ 3.0mm, allowable deviation of -0.06mm; The thickness range and dimensional tolerances of the strip are also merged and revised, and the thickness and thickness tolerances of the original standard strip > 0.1 mm to 0.25 mm to

0.02 mm, >

0.25 mm to

0.50 mm to

0.03 mm, and >

0.50 mm to

1.0 mm- 0.05mm, combined with > 0.1mm ~ 0.30mm-0.02mm, > 0.30mm ~

1.0mm-0.04mm; thickness range And thickness tolerance > 1.0mm ~ 1.50mm-0.06mm, >

1.50mm ~ 2.0mm-0.08mm, > 2.0mm ~ 2.50mm-0.12mm and > 2.5mm ~ 5.0mm-0.15mm,

combined with > 1.0mm ~ 2.0mm-0.06mm, >

1 Scope

GB/T 18762-2017 is the Chinese national standard on specification for filler brazing materials made of precious metal and their alloy, in the field of metallurgy. 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 12 July 2017 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 June 2018. Classification: ICS 77.150.99, CCS H68. 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 technical requirements, test methods and inspection rules for precious metals and their alloys, wire, sheet, strip and foil. Chi, packaging, transportation, storage, quality certificates and contract contents. This standard applies to the general welding and vacuum welding equipment with precious metals and alloy solder.

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 Pieces. For undated references, the latest edition (including all modifications) applies to this document. Test method for thermal analysis of melting temperature range of precious metals and their alloys GB/T 1425

GB/T 15072 (all parts) Chemical analysis of precious metal alloys

GB/T 15077 Geometrical measurement methods for precious metals and their alloys

Glossary of Precious Metals and Their Alloys

GB/T 17684 Methods for the representation of precious metals and their alloys GJB950A (all parts) Precious metals and their alloys Trace element analysis method SJ/T 10754 Methods of test for gold, silver and its brazing solder for electronic devices - Cleanliness test method SJ/T 10755 Methods of test for gold, silver and its brazing solder for electronic devices - Method of sputtering test

3 Terms and definitions

GB/T 17684 The terms and definitions defined apply to this document.

4.1 Product classification

4.1.1 Example of product marking method and marking The standard alloy grades are shown in GB/T 18035-2000. The old and the old grades and the reference melting temperature are shown in the attached table. Record A. Pure metal and eutectic alloy solidus and liquidus temperature is the same, the solder solid, liquidus temperature is expressed as a single data. Vacuum brazing The solder filler grade indicates the method of adding V to B, see the example of the mark. The solder grade is expressed as follows: B (-) -/- Solder liquid line temperature Solder solidus temperature The basic elements of brazing filler metal and its content, add elements Hard solder code