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H 62



National Standard of the People's Republic of China

中华人民共和国国家标准

GB/T 2059—2008

Replace GB/T 2059—2000, GB/T 2067—1980, GB/T 2069—1980,

GB/T 11089—1989, GB/T 15714—1995

Strip of Copper and Copper Alloy

铜及铜合金带材

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Foreword

This standard is modified in relation to Japanese industrial standard JIS H3100—2006 “Copper and Copper Alloys-Sheet, Plate and Strip” and JIS H3110—2006 “Phosphor Bronze and Nickel Silver Alloys-Sheet, Plate and Strip”, and refers to European Union standard BS EN 1652:1998 “Copper and Copper Alloys-Plate, Sheet, Strip and Circles for General Purposes”.

This standard replaced GB/T 2059—2000 “Strip of Copper and Copper Alloy”, GB/T 2067—1980 “Tin-zinc-lead-bronze Strips”, GB/T 2069—1980 “Aluminum-copper-nickel Alloy Strips”, GB/T 11089—1989 “Leaded Brass Strips for Special Purpose” and GB/T 15714—1995 “Brass (H65) Strip for Welded Tube”.

Compared with GB/T 2059—2000, GB/T 2067—1980, GB/T 2069—1980, GB/T 11089—1989 and GB/T 15714—1995, the main changes of this standard are:

—Four designations such as H63, H85, QSn8-0.3 and BZn18-17 are added. C2300 designation of JIS H3100—2006 standard and CuZn15 designation of EN standard are adopted to specify the mechanical performance of H85; C5212 of JIS H3110—2006 standard is adopted to specify mechanical performance of QSn8-0.3; C7521 of JIS H3110—2006 standard is adopted to specify chemical composition and mechanical performance of BZn18-17;

—Pure copper is added with ultra hard (T) state, and the mechanical performance of hard (Y) state is modified correspondingly;

—H70, H68, H65 and QSn6.5-0.1 are added with flexible hard (TY) state, and the tensile strength value is modified by adopting JIS H3100—2006 and JIS H3110—2006 standards;

—The accessible lower limit of thickness for strip is changed into “larger than 0.15mm” from “0.05mm”; the upper limit of strip width with 0.5mm~3.0mm thickness for pure copper and common brass is enlarged to “1200mm” from “1000mm”;

—The permissible deviation of physical dimension shall be unified according to those specified in GB/T 17793;

—The hardness test is changed into routine test item from reference item, and is specified into “either tensile test or hardness test will be selected; if no special explanation, the tensile test shall be provided”;

—The measurable thickness of tensile test is changed into no less than “0.2mm~0.15mm” from no less than “0.3mm”, and the specification for thickness of hardness test is deleted (namely all specifications may be carried out with test);

—The mechanical performance of TU1 and TU2 is merged with other red copper category;

—The hardness range of pure copper category, H70, H68, H65, H62 and QSn6.5-0.1 is properly reduced, and the upper limit of corresponding soft state hardness is specified;

—The tensile strength of ultra hard (T) state for HPb59-1 is unified as no less than 590N/mm² according to thickness bracket specification;

—The specification for selection of cup drawing test is deleted;

Strip of Copper and Copper Alloy

1 Scope

This standard specifies the requirements, test methods, inspection rules, mark, package, transport and storage as well as order (or contract) for wrought copper and copper alloy strip.

This standard is applicable to wrought copper and copper alloy strip for general purposes.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest edition of these documents is applicable. For undated references, the latest edition of the normative document is applicable.

GB/T 228—2002 “Metallic Materials—Tensile Testing at Ambient Temperature”

GB/T 230.1 “Metallic Rockwell Hardness Test—Part 1: Test Method (Scales A, B, C, D, E, F, G, H, K, N, T)”

GB/T 232 “Metallic Materials—Bend Test”

GB/T 351 “Metallic Materials—Resistivity Measurement Method”

GB/T 4340.1 “Metallic Materials—Vickers Hardness Test—Part 1: Test Method”

GB/T 5121 (All parts) “Methods for Chemical Analysis of Copper and Copper Alloys”

GB/T 5231 “Wrought Copper and Copper Alloys Chemical Composition Limits and Forms of Wrought Products”

GB/T 6147 “Test Method for Thermoelectric Power of Precision Resistance Alloys”

GB/T 6148 “Test Method for Temperature-resistance Coefficient of Precision Resistance Alloys”

GB/T 8888 “Wrought Heavy Non-ferrous Metal Products-Packing, Marking, Transporting and Storing”

GB/T 17793 “Wrought Copper and Copper Alloy Plate, Sheet and Strip for General Purposes—Dimensions and Tolerances”

YS/T 347 “Copper and Copper Alloys-Estimation of Average Grain Size”

3 Requirements

3.1 Product Classification

3.1.1 Designation, state and specification

The designation, state and specification of strip shall be in accordance with those specified in Table 1.

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