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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 1527-2006

Replace GB/T 1527-1997, GB/T 8010-1987

Drawn tube of copper and copper alloys

铜及铜合金拉制管

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Foreword

The standard takes reference to EN 12449:1999 Copper and Copper Alloys Seamless Round Tubes for General Applications.

The standard supercedes GB/T 1527-1997 Drawn Tubes of Copper and Copper Alloys and GB/T8010-1987 Lead Brass Tube HPb63-0.1 for Air Valves.

Compared to GB/T 1527-1997 and GB/T8010-1987, the standard incorporates the following major changes:

- Specifications of drawn rectangular (square) tubes of pure copper and brass for general applications are newly added;
- Brands H90, H85, H85A, H80, H70, H70A, H68A, H65, H65A, H63, H59, HPb66-0.5, HPb59-1, BFe10-1-1 and BFe30-1-1 are newly added;
- States of pure copper and brass tubes are adjusted, light-soft state (M2) is added, hard (Y) and half-hard (Y2) state are added to some brands;
- Tube sizes are adjusted;
- Clause “tensile test shall use long test piece” is cancelled, i.e., clause on elongation ratio An..2 is cancelled;
- Clause “Tubes may be hardness (VH or BH) tested optionally ” is added.
- Tensile test of pure copper tubes is specified anew by referring to EN standard. Mechanical properties at hard (Y) state are graded according to wall thickness other than original outer diameters; clause on mechanical properties of oxygen-free copper tubes is added; clause on upper limit of tube tensile strength at half-hard state is cancelled, now tensile strength is limited by elongation ratio;
- Tensile test of brass tubes is specified anew with reference to EN standard;

Drawn tube of copper and copper alloys

1 Scope

The standard specifies requirements, test methods, inspection rules, marking, package, transportation, storage and ordering information of drawn tubes of copper and copper alloys.

The standard applies to drawn round and rectangular (square) tubes of copper and copper alloys for general applications.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 228-2002 Metallic Materials Tensile Test Procedure at ambient Temperature

GB/T 231.1 Metal HB Test Part 1: Test Procedure

GB/T 242 Metallic Tubes Flaring Test Procedure

GB/T 246 Metallic Tubes Flattening Test Procedure

GB/T 2828.1 Counting Sample Inspection procedure Part 1: Lot-by-Lot Inspection Sampling Plan as per AQL Retrieval

GB/T 4340.1 Metal VH Test Part 1: Test Procedure

GB/T 5121 (All Parts) Chemical Analysis Procedure for Copper and Copper Alloys

GB/T 5231 Chemical Compositions and Product Shapes of Wrought Copper and Copper Alloys

GB/T 5248 Eddy Current Flaw Detection Procedure for Seamless Tubes of Copper and Copper Alloys

GB/T 8888 Package, Marking, transportation and Storage of Non-Ferrous Heavy Metals



北京文心雕语翻译有限公司
Beijing Lancarver Translation Inc.

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