

ICS 23.040.60

CCS J15



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

GB/T 15530.4-2008

Replacing GB 2507-1989

Copper alloy hubbed slip-on flanges for brazing or welding

铜合金带颈平焊法兰

Issued on: August 25, 2008

Implemented on: April 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

GB/T 15530 "copper alloy and composite flanges" series of standards consists of the following eight components.

- GB/T 15530.1 whole cast copper alloy flanges;
- GB/T 15530.2 copper alloy welded flange;
- GB/T 15530.3 copper alloy plate flat welding flange;
- GB/T 15530.4 copper alloy with a neck flat welding flange;
- GB/T 15530.5 copper alloy flat steel welding Loose ring flange;
- GB/T 15530.6 hemming brass and copper alloy steel welding Loose ring flange;
- GB/T 15530.7 copper alloy flange cover;
- GB/T 15530.8 copper alloy and composite flanges technical conditions. This section GB/T 15530 Part 4. This part of GB/T 2507-1989 "copper marine welding flange (four into bit)" and GB/T 15530.4-1995 "copper alloy Hubbed Welding flange "revision. This part of GB/T 2507-1989 and GB/T 15530.4-1995 main changes are as follows:
 - The original two standards into a standard, unified standard name;
 - Type flange sealing surface divided by the raised face (RF type) and the whole plane (FF type) two kinds;
 - Unified way mark, requirements, material grades, other requirements;
 - According to GB/T 1.1-2000 "Standardization Guide Part 1. Standard structure and write rules," the requirements of the standard input Line rewritten. Since the implementation of this section instead of GB/T 2507-1989 and GB/T 15530.4-1995. This part is proposed by China Machinery Industry Federation. This part of the National Standardization Technical Committee pipe accessories. This section drafted by: China Shipbuilding Technology and Economy Research Institute, the machine Productivity Promotion Center, Hudong-Zhonghua Shipbuilding (Group) Ltd., Sheng Linhai City Star Copper Tube Co., Ltd..

The main drafters of this section. Li Junying, He Huiqiong, Luo Yuan hair, Panzhao You, Mei-Ling Zhang, Geng Haiping, Feng Feng. This part of the standard replaces the previous editions are.

--- GB 2507-86, GB/T 2507-1989;

1 Scope

GB/T 15530.4-2008 is the Chinese national standard on copper alloy hubbed slip-on flanges for brazing or welding, in the field of fluid systems and general-purpose components. 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 25 August 2008 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 April 2009. Classification: ICS 23.040.60, CCS J15. 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.

GB/T 15530 provisions of this part of the copper alloy with a neck flat welding flange (hereinafter referred to as flange) type and size, marking requirements. This section applies to the nominal pressure of not more than PN25 and Class300 below the operating temperature no higher than 260 °C for various types of valves and fittings Design and manufacturing of the flange.

2 Normative references

The following documents contain provisions which, through reference

GB/T 15530 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 1184-1996 shape and position tolerances without individual tolerance value (eqv ISO 2768-2. 1989)

GB/T 1804-2000 General tolerances for linear and angular dimensions without individual tolerance tolerance (eqv ISO 2768-1. 1989)

GB/T 2501 Marine flange connection dimensions and sealing surface

GB/T 5231-2001 processing of copper and copper alloy chemical composition and shape of

the product

GB/T 15530.8 copper alloy and composite flanges technical conditions

3 Type and size

3.1 Press the flange sealing surface is divided into the following two types.

- a) raised face (RF type) copper alloy with a neck flat welding flange;
- b) plane (FF type) copper alloy with a neck flat welding flange.

3.2 Basic parameters

3.2.1 PN series flanges Pressure - temperature rating shown in Table 1. Table 1 PN6 ~ PN25 flange pressure - temperature rating

Nominal PN	Operating temperature/°C	120a	200
Maximum working pressure/MPa	Nominal size DN	RF Type	FF Type
6	0.6	0.5	10
500 ~ 50	010 ~ 10	1.0	0.8
10	800 ~ 50	010 ~ 16	250
1.6	1.3	10 ~ 10	~ 250
25	2.5	2.0	10 to 250
10 to 250	a more than nominal size DN	250 PN6, PN10, PN16 and PN25 flanges of FF the maximum operating temperature no higher than 120 °C.	