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

GB/T 15530.5-2008

Replacing GB/T 15530.5-1995

**Loose plate flange in steel with a plate collar alloy for brazing
and welding**

铜合金平焊环松套钢法兰

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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 5. This Part replaces GB/T 10748-1989 "marine welding copper rings loose sleeve steel flange (four into bit)" and GB/T 15530.5-1995 "Copper alloy flat steel plate welded Loose ring flange." This portion of the GB/T 10748-1989 and GB/T 15530.5-1995 main changes are as follows:
 - The two standards into a standard, unified standard name;
 - Unified flange parameters;
 - Unified flange welds;
 - Unified pipe diameter;
 - Unified form of copper rings and the connection pipe;

1 Scope

GB/T 15530.5-2008 is the Chinese national standard on loose plate flange in steel with a plate collar alloy for brazing and 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 flat steel welding Loose ring flange (hereinafter referred to as flange) type and size, label, Claim. This section applies to the nominal pressure of not more than PN40, working temperature no higher than 200 °C for various types of piping design and manufacturing flanges.

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 600 marine piping valves General technical requirements

GB/T 700-2006 carbon structural steel (ISO 630.1995, NEQ)

GB 712-2000 hull structural steel

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 (four into position)

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

3.1 Basic parameters

3.1.1 Copper alloy steel flat welding flange ring set loose pressure - temperature rating shown in Table 1. Table 1 flange pressure - temperature rating Nominal PN -10 120 150 180 200 Maximum working pressure P/MPa Nominal size DN 6 0.6 0.6 0.6 0.5 10 - 500 10 1.0 1.0 1.0 0.85 10 ~ 500 16 1.6 1.6 1.6 1.35 10 ~ 500 25 2.5 2.5 2.5 2.12 10 ~ 500 40 4.0 3.85 3.4 3.0 10 - 400

Note 1. The nominal maximum size greater than DN250 flanged operating temperature of 120 °C.

Note 2. The nominal pressure PN40 flange does not apply to the shipbuilding industry. Dimensions and sealing surface

3.1.2 Marine flange, see GB/T 2501.

3.2 Structure and size Copper alloy steel flat welding flange ring set loose structure and dimensions shown in Figure 1 and Tables 2 to 6.