

ICS 53.020.30

CCS R46



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

GB/T 14735-2009

Replacing GB 14735-1993

**Specification for the operation of the hook used in the port for
cargo handling**

港口装卸用吊钩使用技术条件

Issued on: September 30, 2009

Implemented on: November 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

This standard replaces GB 14735-1993 "port handling hook used condition." This standard compared with GB 14735-1993, the main differences are as follows:

- Expanding the scope of the scope, remove the NA dangerous job requirements (see Chapter 1);
- In the hook type, increasing the nose-shaped hook (see Figure 1);
- Modify the hook strength grade division, the original five intensity level in accordance with ISO standard is divided into three strength levels, improve Strength grading standards (see 3.2);
- Revised hook nominal weight range, according to the weight of the hook from the hook strength classification, an increase of T (8) Level nominal weight 20t hook (see 3.3);
- Material requirements defined by the hook hook material intensity level of sulfur, phosphorus requirements (see 4.1.1);
- Technological requirements added to hook the hook surface hardness after heat treatment requirements, an increase in the manufacturing process can not hook welding Regulations (see 4.2);
- Strength requirements, increasing the lifting hook 2 times the nominal weight of the test load, the amount of residual deformation and eye diameter must not exceed Than 1% of the diameter; hook when lifting four times the rated capacity of the test load, the hook can not be broken before the destruction slip hook (See 4.4);
- Storage requirements increase the hook placed environmental requirements (see 6.2);
- Hook used as a standard text from appendix removed hook repairs (see Chapter 7);
- Increased use of hook inspection (see 7.4); Check and scrapped as a standard text from

the appendix

--- hook, hook scrapped added T level than the public opening of the hook 10% said the size; hook and eye wear more than 10% of the nominal size; hook surface wear, corrosion, pits over public 10% said the size; hook bending (see Chapter 8). The standard proposed by the Ministry of Transport of the People's Republic of China. This standard by the Ministry of Port Machinery standard focal point. This standard was drafted. Shanghai International Port (Group) Co., Ltd. The main drafters of this standard. Bao Qifan, Xu Delin, Wenjun, Gezhong Xiong, Gao Yong Xiang, Dongting Long. This standard replaces the standards previously issued as follows:

--- GB 14735-1993. Port handling hook used condition

1 Scope

GB/T 14735-2009 is the Chinese national standard on specification for the operation of the hook used in the port for cargo handling, in the field of materials handling equipment. 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 30 September 2009 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 November 2009. Classification: ICS 53.020.30, CCS R46. 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 port cargo handling hook (hereinafter referred to as the hook) rating, the rated capacity, technical requirements, test methods, marking and storage. Storage, use, inspection and scrap and other technical conditions of use. This standard applies to port handling work on the assembly of various types of hook rigging.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 699 high-quality carbon structural steel

GB/T 1591 high strength low alloy structural steel

GB/T 3077 alloy structural steel (

GB/T 3077-1999, neqDINEN10083-1.1991) 3 basic forms hooks, intensity level and the nominal weight

3.1 The basic form of hooks in Figure 1.

b) throttling hook

c) the nose hook Figure 1

3.2 Hook intensity level in Table 1. Table 1 hook strength class Grade material tensile strength (σ_b)/MPa M (4) level ≥ 400 S (6) level ≥ 630 T (8) level ≥ 800