

ICS 03.220.40

CCS R43



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

GB 16994.5-2024

Safety requirements for port operation - Part 5: General cargo

港口作业安全要求 第5部分：件杂货物

Issued on: June 25, 2024

Implemented on: January 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

Port operations involve the safety of port facilities, equipment, ships, cargo and personnel, and are key areas of safety monitoring and management. There are great differences in the types of cargo, equipment and facilities, operation techniques and operator skills in port operation sites. 16994 "Port Operation Safety Requirements" fully considers the industry's safety development level, the current status of enterprise safety management and on-site operation experience. In terms of safety, different types of port operation sites and operation projects have been formulated to achieve coordination among the various parts of the standard. GB 16994 aims to effectively improve the safety level of port operations and reduce operational safety risks. It consists of 7 parts. constitute. Part

1.Oil, Gas and Chemical Terminals. The purpose is to clarify the operational safety requirements of oil, gas and chemical terminals and standardize operational behaviors. Part

2.Petrochemical storage area. The purpose is to clarify the safety requirements for operations in the port petrochemical storage area and standardize operations. Behavior. Part

3.Dangerous Goods Containers. The purpose is to clarify the safety requirements for dangerous goods container operations in ports and standardize operations. Behavior. Part

4.General cargo containers. The purpose is to clarify the safety requirements for general cargo container operations in ports and standardize operations. Behavior. Part

5.General cargo. The purpose is to clarify the safety requirements for general cargo operations in ports and standardize operational behaviors. Part

6.Solid Bulk Dangerous Goods. The purpose is to clarify the safety requirements for solid bulk dangerous goods operations in ports and standardize operations. Behavior. Part

7.Cement. The purpose is to clarify the safety requirements for port cement operations and standardize operational behaviors. Safety requirements for port operations Part

1 Scope

Part 5 of China's mandatory safety requirements for port operations, covering general cargo. General cargo is everything that is not in a container, a tank or a bulk hold - steel coils and plate, timber, bagged goods, machinery, project cargo and anything else that has to be slung individually - and it is the most dangerous cargo work there is, because every lift is different and the load is rigged by hand. The accidents come from the rigging: a sling that fails, a load that is not balanced and swings, a coil that rolls, a bundle that shifts as it leaves the hold. So the requirements cover the lifting gear and its inspection and marking, the slinging methods for the cargo types that keep causing injuries, the stowage and securing in the hold, the position of the people who must be near the load and the signals between them and the crane driver, and the access into and out of the hold.

90 Wind load calculation and wind safety requirements for port loading and unloading machinery JT/T 557 Lighting illumination and measurement methods in port operation areas TSG

81 Safety technical regulations for special motor vehicles within the factory

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 6067.1 Safety regulations for lifting machinery Part

GB 12268-2012 List of Dangerous Goods

GB 15603 General Rules for Storage of Hazardous Chemicals in Warehouses

GB 16993 Safety regulations for preventing dangerous oxygen deficiency in enclosed spaces on board ships

GB 18265 Basic safety technology requirements for hazardous chemicals business enterprises

GB 50016 Code for Fire Protection Design of Buildings

GB 55036 General specification for fire protection facilities

GB 55037 General code for fire protection of buildings JT/T

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 General cargo In port operations, packaged or bare goods are transported in pieces.

Note. Packaging forms include barrels, bags, boxes (not containers), baskets (baskets, cages), jars (cans, cylinders), bundles, plywood, pallets Type, coil type, etc.

3.2 Hook line The route that the hook of a crane passes through during cargo lifting operations.

4 General requirements

4.1 Enterprises should formulate rules and regulations and operating procedures based on the characteristics of loading, unloading and stacking processes and the hazardous characteristics of dangerous miscellaneous goods.