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

GB/T 31078-2024

Specification for low temperature warehousing operations

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1 Scope

China's national specification for low temperature warehousing operations, and the current edition of GB/T 31078, replacing the 2014 edition. It sets out the basic requirements, the workplace, the operating equipment, the operating requirements covering inbound, storage, outbound, delivery, returns and circulation processing, the control of ambient temperature, the safety requirements, and the information system requirements for cold storage operations. Cold storage is not ordinary warehousing at a lower temperature. The stock is perishable, its remaining life depends on a temperature history that cannot be read from the goods, and the single largest risk is a temperature excursion that leaves no trace - a pallet left on a dock, a door held open, a delivery vehicle loaded before it was pre-cooled. It is also a difficult place to work: below freezing, with limited exposure times, restricted visibility from fogging, floors that ice, and workers in heavy protective clothing operating handling equipment. The 2024 revision reflects both of those. It adds temperature inspection of the storage and the operating environment on receipt, adds the handling of goods that do not meet storage permit conditions, adds food acceptance and handover requirements, adds inspection of sealed vehicles and requirements for food delivery, returns handling and circulation processing, and revises the ambient temperature control clause outright. On safety it adds requirements for safety facility signs and identification, periodic inspection of protective equipment, and emergency plans with regular drills. It also modernises the record-keeping, deleting the requirement that handover records be on paper, and revises the information system requirements while adding requirements for connection to upstream and downstream systems. Issued on 24 July 2024 and in force since 1 November 2024.

This document specifies the basic requirements for low-temperature storage operations, work sites, work equipment, work requirements, ambient temperature control, safety management, etc. Management, information systems and information management, evaluation and improvement. This document applies to warehousing operations in low-temperature warehouses. This document is not applicable to low-temperature storage operations of medicines and dangerous goods.

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 14440 Classification of low temperature work

GB/T 16470 Pallet Unit Load

GB/T 24616-2019 Logistics packaging, labeling, transportation and storage of refrigerated and frozen foods

GB/T 28009-2011 Cold Storage Safety Regulations

GB/T 28843 Food cold chain logistics traceability management requirements

GB/T 30134 Cold Storage Management Specification

GB/T 40956-2021 Food cold chain logistics handover specification

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Low temperature warehouse A warehouse that meets the temperature control requirements for refrigeration and freezing of items.

3.2 Low temperature warehousing Activities such as warehousing, storage, and outbound delivery are carried out in low-temperature warehouses.

4 Basic Requirements

4.1 The low-temperature warehouse operator shall establish a storage management system, operating procedures, etc., and carry out low-temperature storage in accordance with the management system, operating procedures, etc. Homework activities.

4.2 The premises, equipment, information system and operators that meet the needs of low-temperature storage operations should be available. Operations involving food storage and processing Personnel should have a health certificate.

4.3 The operators shall be trained in relevant laws, regulations, standards, fire safety, occupational health and professional skills, and the relevant The duties and assessment methods of job positions should be assessed regularly and records should be kept.

4.4 All operations involving low temperature storage operations should be carried out in

closed facilities.

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