

ICS 65.040.20

CCS B 20



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

GB/T 26879-2025

Replacing GB/T 26879-2011

**Grain and oils storage - Technical specification of heat
insulation in horizontal warehouse**

粮油储藏 平房仓隔热技术规范

Issued on: January 24, 2025

Implemented on: August 1, 2025

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

Table of Contents

Preface	III
1 Scope	1
2 Normative references	1
3 Terms and Definitions	2
4 Warehouse insulation technical requirements	3
4.1 Thermal insulation materials	3
4.2 Roof insulation structure	4
4.3 Silo roof insulation structure	4
4.4 Ceiling insulation structure	4
4.5 Warehouse wall insulation structure	5
4.6 Insulation of thermal bridges such as door and window openings	5
4.7 Other requirements	6
5 Technical requirements for grain pile insulation	6
5.1 Gland material	6
5.2 Basic methods of grain covering	6
5.3 Other requirements	6
6 Verification Methods	6
6.1 Warehouse insulation	6
6.2 Grain Pile Insulation	8
References	9

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 26879-2011 "Technical Specification for Thermal Insulation of Grain and Oil Storage Warehouses". Compared with GB/T 26879-2011, In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Deleted the terms and definitions of heat transfer for stored grain, enclosure structure, insulation material, polyurethane foam layer and grain pile sealing (see 2011 Versions 3.2, 3.3, 3.4, 3.9 and 3.10);

- Changed the definitions of warehouse insulation, static insulation, dynamic insulation, roof insulation, ceiling insulation, and grain cover (see 3.1, 3.2, 3.3, 3.4, 3.5 and 3.6, 3.1, 3.5, 3.6, 3.7, 3.8 and 3.11 of the 2011 edition);
- Added the terms and definitions of radiant cooling materials, aerogels, polyurethane insulation boards and thermal bridges (see 3.7, 3.8, 3.9 and 3.10);
- Changed the requirements for polyurethane foam materials, thermal insulation coatings, ceiling materials, and overhead materials (see 4.1.2~4.1.5, 2011 edition 4.1.2~4.1.5);
- Added radiation cooling materials, aerogel materials, polyurethane insulation boards, paving radiation cooling films or aerogel insulation coils for insulation, interior Requirements for thermal insulation of polyurethane insulation boards pasted on walls (see 4.1.6~4.1.8, 4.3.3, 4.5.3);
- Changed the requirements for thermal insulation of thermal bridges such as door and window openings (see 4.6, 4.6 of the 2011 edition);
- Deleted "rice husk cover" and "quilt or blanket cover" (see 5.2.1 and 5.2.3 of the 2011 edition);
- Changed "Chemical material gland" and "Other material gland" (see 5.2, 5.1.3, 5.2.2, 5.2.4 of the 2011 edition);
- Changed "Thermal insulation precautions" (see 4.7, 5.3, Chapter 6 of the 2011 edition);
- Added verification method (see Chapter 6).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the State Administration of Grain and Material Reserves.

This document is under the jurisdiction of the National Technical Committee on Cereals and Oils Standardization (SAC/TC270).

This document was drafted by: China National Grain Reserves Group Co., Ltd., Henan University of Technology, China National Grain Reserves Chengdu Storage Research Institute Co., Ltd., Liaoning Institute of Food Science.

The main drafters of this document are: Ye Zhenhong, Wang Dianxuan, Fu Pengcheng, Zhu Kai, Cao Yi, Li Haojie, Qin Ning, Liu Shengqiang, Zhao Jinhui, Zhao Xiaojun, Li Yanhai, Xu Qingyu, Wang Jianlong, Gou Bin, Ma Chunbao.

The previous versions of this document and the documents it replaces are as follows.

- First published in 2011 as GB/T 26879-2011;
- This is the first revision.

1 Scope

This document defines the terminology of thermal insulation technology for flat warehouses and grain piles, and specifies the requirements for thermal insulation technology for warehouses, grain piles and For other requirements, describe the corresponding verification methods.

This document applies to the insulation technology treatment of newly built or renovated bunk warehouses to slow down the rise in grain temperature.

2 Normative references

GB/T 1043.1

GB/T 5480

GB/T 6343

GB 8624-2012

GB/T 8810

GB/T 8811

GB/T 8813

GB/T 9641

GB/T 9780

GB/T 10294

GB/T 10295

GB/T 10799

GB/T 13475

GB/T 13519

GB/T 17671

GB 18580

GB 18582

GB/T 29061-2012

GB/T 29890

GB 50016

GB 50345-2012

GB 50404

chinastandards.org · PREVIEW