

ICS 83.140.99

CCS G 47



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

GB/T 47184-2026

Livestock farming rubber sheets for dairy cattle - Specification

畜牧业奶牛养殖用橡胶板 规范

(English Translation)

Issued on: February 27, 2026

Implemented on: September 1, 2026

Issued by: State Administration for Market Regulation

Table of Contents

Foreword
1 Scope
2 Normative references

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is modified to adopt ISO 22941:2021 "Rubber mats for dairy cows".

This document has undergone the following structural adjustments compared to ISO 22941:2021.

---4.1 corresponds to Chapter 4 of ISO 22941:2021;

---Added 4.2;

---Added 5.4;

---Chapter 6, section 6.3.4 has been added, corresponding to Annex A of ISO 22941:2021;

---Chapter 7 has been added;

---Chapter 6 of ISO 22941:2021 has been removed;

---Appendix A corresponds to Appendix B of ISO 22941:2021;

--- Annex C of ISO 22941:2021 has been deleted.

The technical differences between this document and ISO 22941:2021, and the reasons therefor, are as follows.

---The scope has been changed (see Chapter 1, ISO 22941:2021) to clarify the standard's summary, applicable scope, and...

object;

---The term "load deformation" and its definition (see 3.3) have been added for ease of understanding;

---The marking content has been changed, and rubber sheet classification codes and marking rules have been added (see Chapter 4, Section 6 of ISO 22941:2021).

(Section), to better distinguish the rubber mats for walking areas and lying down areas;

---The requirements and test methods for appearance have been changed (see 5.1, 6.1, 5.1 of ISO 22941:2021) to facilitate operation during testing;

---The minimum thickness requirement for the rubber sheet has been increased (see 5.2) to suit my country's national conditions;

---ISO 3302-1 (see 5.2, ISO 22941:2021) has been replaced with the normatively referenced GB/T 3672.1 to suit my needs.

Based on national conditions, improve operability;

---The tensile strength requirements for the rubber sheet in the walking area have been changed (see 5.3, ISO 22941:2021 5.3) to meet the needs of use;

---Increased requirements for limits on harmful substances and related testing methods (see 5.4, 6.4) to provide a healthy environment for dairy cows;

---Added requirements for the selection of measurement points (see 6.2) to eliminate the influence of uncertain measurement point locations on the results;

---The normative references GB/T 39693.4, GB/T 528, and GB/T 1690 have replaced ISO 48-4, ISO 37, and ISO 38-4, respectively.

ISO 1817 (see 6.3.1, 6.3.2, 6.3.4, and Table 1 of ISO 22941:2021) should be adopted to adapt to my country's national conditions and improve operability.

---The test method for the coefficient of friction has been modified (see 6.3.8, Annex C of ISO 22941:2021) to improve the acceptance of this document and promote...

Promote the use of this document;

---The test method for measuring the indentation depth of rubber sheets under service load has been refined, and the test materials for the lying area rubber sheets have been added.

The requirements for materials (see Appendix A, Appendix B of ISO 22941:2021) should be adapted to my country's national conditions and to improve operability;

---ISO 5893 has been replaced with the normatively referenced GB/T 17200 (see A.1.1, B.1.1 of ISO 22941:2021);

---Requirements for packaging, transportation, and storage have been added (see Chapter 7) to strengthen the standardized management of products.

The following editorial changes have been made to this document.

---To align with existing standards, the standard name has been changed to "Specification for Rubber Sheets Used in Dairy Cattle Farming in Livestock Industry";

---Example with added tags (see 4.2);

---Change "Test Methods" to "Applicable Test Entries" (see Table 1, Table 1 of ISO 22941:2021);

---Note B.1.2 in ISO 22941:2021 has been removed.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Rubber and Rubber Products (SAC/TC35).

1 Scope

This document specifies the classification, marking, requirements, labeling, packaging, and transportation of rubber sheets (hereinafter referred to as rubber sheets) used in dairy farming.

Storage, and related experimental methods are described.

This document applies to the production and inspection of rubber sheets used in the walking and lying areas of dairy cows.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 528 Determination of tensile stress-strain properties of vulcanized rubber or thermoplastic rubber (GB/T 528-2009, ISO 37.

2005, IDT)

GB/T 1690 Test methods for resistance to liquids of vulcanized or thermoplastic rubber (GB/T 1690-2010, ISO 1817:2005) MOD) GB/T 2941 General Procedures for Specimen Preparation and Conditioning in Physical Testing Methods for Rubber GB/T 3512-2014 Accelerated aging and heat resistance tests of vulcanized rubber or thermoplastic rubber in hot air (ISO 188:2011, IDT) GB/T 3672.1 Tolerances for rubber products - Part 1: Dimensional tolerances (GB/T 3672.1-2025, ISO 3302-1:2014) IDT) GB/T 7759.1-2015 Determination of compression set of vulcanized or thermoplastic rubber - Part 1: Under normal and high temperature conditions Under the conditions (ISO 815-1:2008, IDT) Note. ISO 22941:2021 references ISO 815-1:2019. The content referenced in GB/T 7759.1-2015

is not technically related to ISO 815-1:2019.

The differences.

GB/T 9867-2008 Determination of abrasion resistance of vulcanized or thermoplastic rubber (rotary roller abrasion test) (ISO 4649.

2002, IDT)

Note: ISO 22941:2021 references ISO 4649:2017. The content referenced in GB/T 9867-2008 is not technically related to ISO 4649:2017.

difference.

GB/T 14833-2020 Synthetic Material Sports Field Surface Layer GB/T 17200 Technical Specification for Rubber and Plastic Tensile, Compression and Bending Testing Machines (Constant Speed Drive) (GB/T 17200-2008) ISO 5893:2002, IDT GB/T 39560.4

Determination of certain substances in electronic and electrical products-Part 4: CV-AAS, CV-AFS, ICP-OES and ICP-MS determination of mercury in polymers, metals and electronic components GB/T 39560.5 Determination of certain substances in electronic and electrical products-Part 5: AAS, AFS, ICP-OES and ICP-MS methods Determination of cadmium, lead, and chromium content in polymers and electronic components, as well as cadmium and lead content in metals.

GB/T 39560.10 Determination of certain substances in electronic and electrical products-Part 10: Determination by gas chromatography-mass spectrometry (GC-MS) Polycyclic aromatic hydrocarbons (PAHs) in polymers and electronic components GB/T 39560.702 Determination of certain substances in electronic and electrical products-Part 7-2. Determination of polymers by hexavalent chromium colorimetric method and Hexavalent chromium [Cr(VI)] in electronic components GB/T 39693.4 Determination of hardness of vulcanized or thermoplastic rubber - Part 4: Determination by Shore hardness tester (Shore hardness)