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Grain storage-Code of practice for low temperature storage

粮食储藏 低温储粮技术规程

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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.

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 submitted by the State Administration of Grain and Material Reserves.

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Grain storage - Technical regulations for low temperature storage of grain

1 Scope

This document establishes the operating procedures for low temperature grain storage, and stipulates the insulation treatment of grain storage warehouses, grain storage, lowering grain temperature, low temperature sealing, The document provides operational instructions for stages such as management during the closure period and grain delivery, and describes the verification methods for operations at each stage.

This document is applicable to low-temperature grain storage in room-type warehouses, vertical silos, shallow round silos and underground warehouses with certain insulation

performance.

2 Normative references

GB/T 4706.32

GB/T 7725

GB/T 9237

GB/T 17981

GB/T 20569

GB/T 20570

GB/T 20571

GB/T 29374

GB/T 29890

GB/T 31785

3 Terms and Definitions

There are no terms or definitions that require definition in this document.

4.1 Low-temperature storage room

4.1.1 The heat transfer coefficient of the enclosure structure of the cryogenic warehouse shall comply with the requirements of GB/T 29890. The heat transfer coefficient K value of the enclosure structure and its calculation method shall be See Appendix A.

4.1.2 There should be a moisture-proof treatment layer, which should be placed on the periphery of the thermal insulation material. The moisture-proof layer and the thermal insulation layer should maintain integrity and continuity.

It is able to withstand thermal expansion and side pressure of grain pile without deformation.

4.1.3 The airtightness of the cryogenic storage chamber shall comply with the requirements of GB/T 29890.

4.2 Food quality

4.2.1 Paddy rice shall comply with the requirements of GB/T 20569.