

ICS 83.140.30

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

GB/T 13664-2023

Replacing GB/T 13664-2006

**Unplasticized poly(vinyl chloride)(PVC-U) pipes for
low-pressure conveyance in irrigation**

低压灌溉用硬聚氯乙烯（PVC-U）管材

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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 replaces GB/T 13664-2006 "Rigid polyvinyl chloride (PVC-U) pipes for low-pressure water transmission and irrigation" and is consistent with GB/T 13664- Compared with.2006, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

---Changed the scope of product application (see Chapter 1, Chapter 1 of the.2006 edition);

---Added terms and definitions, symbols and abbreviations (see Chapter 3, Chapter 4);

--- Added relevant requirements for materials (see Chapter 5);

---Changed the product classification (see Chapter 6, Chapter 3 of the.2006 edition);

---Added the requirements for pipe out-of-roundness and changed the expression of the requirements for the average outer diameter of pipes (see 7.3.2,

4.3 of the.2006 edition);

---Changed the specifications and dimensions of the pipe, expanded the outer diameter range to 630mm, deleted the nominal pressure 0.2MPa size series, and added The nominal pressure 0.5MPa and 0.63MPa size series have been established (see 7.3.3,

4.3 of the.2006 edition);

---Added dimensional requirements for pipe sockets with different connection methods (see 7.3.4);

---Added requirements for pipe sockets (see 7.3.5);

---Deleted the bending requirements and test methods (see

5.4 of the.2006 edition);

1 Scope

GB/T 13664-2023 is the Chinese national standard on unplasticized poly(vinyl chloride)(pvc-u) pipes for low-pressure conveyance in irrigation, in the field of rubber and plastic industries. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 83.140.30, CCS G33. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the materials, product classification, color, appearance of rigid polyvinyl chloride (PVC-U) pipes (hereinafter referred to as "pipes") for low-pressure irrigation. It describes the requirements for appearance, specifications, dimensions and physical and mechanical properties, describes the corresponding test methods, and stipulates inspection rules, marking, packaging, transportation and storage. Content. This document applies to rigid polyvinyl chloride (PVC-U) compounds as raw materials and extrusion molding with a nominal pressure of 0.63MPa and below. Production, inspection and sales of PVC-U pipes for low-pressure irrigation.

2 Test conditions for molded and extruded plastics

GB/T 1633 Determination of Vicat softening temperature (VST) of thermoplastics

GB/T 2828.1 Enumeration sampling inspection procedures Part

1.Batch-by-batch inspection sampling plan retrieved by acceptance quality limit (AQL)

GB/T 2918 Standard environment for conditioning and testing of plastic specimens

GB/T 5761 Suspension method general-purpose polyvinyl chloride resin

GB/T 6111 Determination of internal pressure resistance of thermoplastic piping systems for fluid transportation

GB/T 6671 Determination of longitudinal shrinkage of thermoplastic pipes

GB/T 8802 Determination of Vicat softening temperature of thermoplastic pipes and fittings

GB/T 8804.2 Determination of tensile properties of thermoplastic pipes Part

2.Rigid polyvinyl chloride (PVC-U), chlorinated polyvinyl chloride (PVC-C) and high-impact

polyvinyl chloride (PVC-HI) pipes

GB/T 8806 Determination of dimensions of plastic components of plastic piping systems

GB/T 9647 Determination of ring stiffness of thermoplastic pipes

GB/T 10002.1-2023 Rigid polyvinyl chloride (PVC-U) pipes for water supply

GB/T 14152 Test method for external impact resistance of thermoplastic pipes. clockwise rotation method

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