

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

CJ/T 250-2018

Replacing CJ/T 250-2007

**High density polyethylene pipes and fittings for drainage inside
buildings**

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces CJ/T 250-2007 "High Density Polyethylene (HDPE) Pipe and Fittings for Building Drainage", from the date of implementation of this standard CJ/T 250-2007 is abolished. Compared with CJ/T 250-2007, the main technical changes except editorial changes are as follows.

- Increase the normative reference document GB/T 18992.2 (see Chapter 2);
- Replace EN1053:1995 and EN1054:1995 with GB/T 5836.1 (see Chapter 2);
- Increase the English translation of the term (see 3.1);
- Increase PE compounding (see 3.1.2);
- Increased the basic performance of "PE100" (see 4.1);
- Modified the icon and dimensions of Soweto (see 5.2.1);
- Modify the scope of compliance with EPDM (see 5.2.5);
- Increase the out-of-roundness of the pipe (see 6.3.1.4);
- Increase the vacuum test requirements in Table 8 (see 6.4)
- Added H-connector diagram and dimensions (see B.19);
- Increased the illustration and size of the riser vent cap (see B.19);
- Added P-type trap shape and size (see B.20);
- Added S-type trap illustration and size (see B.21);
- Increased impact strength test (see Appendix D);
- Increased weld strength test (see Appendix E).

This standard practical redrafting method is modified to adopt ISO 8770:2003 "plastic pipes for sewage discharge (low temperature and high temperature) in buildings)

System---polyethylene (PE), the degree of consistency between this standard and ISO 8770:2003 is non-equivalent.

Compared with ISO 8770:2003, the technical differences between this standard and ISO 8770:2003 are as follows.

---ISO 8770:2003 high-density polyethylene pipes and fittings for building drainage are connected by butt welding, electrofusion and Socket connection, etc. The connection methods adopted in this standard are mainly butt welding and electrofusion, and the socket connection is only suitable for expansion and extension.

Snap and seal adapters.

--- For the application range of high-density polyethylene pipe for building drainage, this standard specifies the discharge of sewage, wastewater and rainwater from buildings.

application.

This standard was proposed by the Institute of Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Building Water Supply and Drainage Standardization Technical Committee of the Ministry of Housing and Urban-Rural Development.

This standard is mainly drafted by. Shanghai Jiboli Housing Sanitary Equipment Engineering Technology Co., Ltd., Shanghai Architectural Design and Research Institute Co., Ltd.

Division, Shanghai Minghao Technology Industrial Co., Ltd., Xidi International Design Consultant (Shenzhen) Co., Ltd., Zhejiang Weixing New Building Materials Co., Ltd.

1 Scope

This standard stipulates the use of polyethylene resin as the main raw material, extruded pipe and mold forming or secondary processing of pipe fittings.

Materials, product classification and specifications, requirements, test methods, inspection rules, marking, packaging, transportation and storage.

This standard applies to high-density polyethylene (HDPE) pipes and fittings for building sewage, wastewater, and storm water discharge systems.

The high-density polyethylene pipe specified in this standard is suitable for the drainage temperature range of 0 °C ~ 65 °C, and the instantaneous drainage temperature does not exceed 95 °C;

For ambient temperature of -40 °C ~ 65 °C.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2828.1. Sampling procedures for sampling by sampling - Part 1 . Batch-to-batch sampling plan, searched by AQL Standard environment for GB/T 2918 plastic sample conditioning and testing GB/T 3682 Determination of melt flow rate and melt volume flow rate of thermoplastics GB/T 5836.1-2018 Hard polyvinyl chloride (PVC-U) pipe for building drainage GB/T 6111 Test method for internal pressure resistance of thermoplastic pipes for fluid transportation GB/T 6671 Determination of the longitudinal retraction rate of thermoplastic pipes GB/T 8805 Hard plastic pipe bending method GB/T 8806 Plastic pipe system - Determination of dimensions of plastic parts GB/T 9647 Determination of the stiffness of thermoplastic pipe rings GB/T 13021 Determination of carbon black content of polyethylene pipes and fittings (thermal weight loss method) GB/T 17391 polyethylene pipe and pipe fittings thermal stability test method GB/T 18251 Determination of pigment or carbon black dispersion in polyolefin pipes, fittings and mixes GB/T 18992.2 Cross-linked polyethylene (PE-X) piping systems for cold and hot water - Part 2 GB/T 21873 Rubber seals, drain pipes and sewage pipes for interface seal material specifications GJB1916 General Specification for Low Smoke Cables and Cords for Ships (Toxicity Index Test) ISO 8770:2003 Plastics piping systems for the discharge of waste water (low temperature and high temperature) in buildings (PE) ISO/T R7024.1985 Floor draining of rigid polyvinyl chloride (PVC-U) sanitary plumbing systems for above-ground systems in buildings Installation technology and practices EN681-1 - Elastomeric sealing materials for draining joints - Part 1 . Vulcanized rubber EN1055:1996 Plastic pipe system for the test of temperature rise cycle of thermoplastic piping systems for the discharge of sewage from buildings Test method

3 Terms and definitions, symbols and abbreviations

The following terms and definitions, symbols and abbreviations apply to this document.