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

**中华人民共和国国家标准**

GB/T 10002.1-2006

Replace GB/T 10002.1-1996

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**Unplasticized poly (vinyl chloride) (PVC-U) pipes  
for water supply**

**给水用硬聚氯乙烯 (PVC-U) 管材**

[ISO 4422: 1996, Pipes and fittings made of unplasticized poly(vinyl chloride)(PVC-U) for water supply – Specifications, NEQ]

**Issued on February 21, 2006**

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**Issued by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of China**

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## Foreword

GB/T 10002 consists of three parts are as follows:

- GB/T 10002.1-2006 Unplasticized poly(vinyl chloride)(PVC-U) pipes for water supply;
- GB/T 10002.2-2003 Fittings made of unplasticized poly(vinyl chloride)(PVC-U) for water supply;
- GB/T 10002.3-2011 Valves made of unplasticized poly(vinyl chloride)(PVC-U)for water supply.

This is Part 1 of GB/T 10002. This Part refers to ISO 4422-1: 1996 *Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply -- Specifications -- Part 1: General* and ISO 4422-2: 1996 *Pipes and fittings made of unplasticized poly(vinyl chloride) (PVC-U) for water supply -- Specifications -- Part 2: Pipes (with or without integral sockets)*, according to actual situation and combined with International Standard, revised for GB/T 10002.1-1996 *Unplasticized polyvinyl chloride (PVC-U) pipe for water supply*. This Part will replace GB/T 10002.1-1996 from implementation date.

Comparison with GB/T 10002.1-1996, main technical changes of this Part are as follows:

- Added the requirements for value K of resin;
- Added the application requirements for stabilizer;
- Added three pressure class such as PN0.63, PN2.0 and PN2.5; deleted PN0.6;
- Added the Pipe series (S) and standard dimension ratio (SDR) value;
- Adjusted the thickness more than 110mm of nominal external diameter;
- Improved the impact energy of falling weight impact test;
- Adjusted the cycle stress of hydraulic test;
- Added the system suitability test;
- Added the size grouping and sizing inspection.

This Standard is proposed by China National Light Industry Associations.

This Standard is under the jurisdiction of Plastic Pipe, Fitting and Valve Sub-committee on SC3 of National Technical Committee on TC48 Plastic Products of Standardization Administration of China.

The responsible drafting organizations are Chengdu Chuanlu Plastic Group Co., Ltd, Hebei Bosoar Pipe Co., Ltd, Nam Sok Building Material & Plastic Products (Shenzhen) Co., Ltd, Nanya Plastic (Xiamen) Co., Ltd, Zhongshan Universal Industrial Co., Ltd, and ERA Plastic Industry Group Co., Ltd.

The chief drafting staff of this standard includes Jia Lirong, Gao Changquan, Chen Tianwen, Xu Shengguang, Zhang Weifeng and Huang Jian.

This standard replaces the following historical editions issued:

- GB/T 10002.1-1996;
- GB/T 10002.1-1988.

# Unplasticized poly (vinyl chloride) (PVC-U) pipes for water supply

## 1 Scope

This section in GB/T 10002 specifies the material, product classification, technical requirements, test methods, inspection rules, marking, packaging, transportation and storage of extrusion molding's rigid polyvinyl chloride pipes used for water supply that take polyvinyl chloride resin as the main raw material (hereinafter referred to as "pipes").

This Part applies to the rigid polyvinyl chloride pipes used for water supply within the buildings or outdoor underground. Use together with GB/T 10002, 2 - 2003 *Rigid Polyvinyl Chloride (PVC-U) Pipes Used for Water Supply*.

The pipes specified in this Part apply to conveying drinking water and water for general purposes under the pressure, and the water temperature does not exceed 45°C.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 1033-1986 Test method for density and relative density of plastics (eqv ISO/DIS 1183:1984)

GB/T 2828.1-2003 Sampling procedures for inspection by attributea-Part1:Sampling schemes indexed by acceptance quality limit(AQL) for lot-by-lot inspection (ISO 2589-1:1999,IDT)

GB/T 2918-1998 Plastics--STANDARD atmospheres for conditioning and testing(idt ISO 291:1997)

GB/T 4615-1984 Determination method of residual vinyl chloride monomer contents in

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