

ICS 91.140
CCS P 40

CJ

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

CJ/T 189-2004

Replacing CJ/T 189-2004

**Plastic-steel mesh skeleton-plastic (PE) composite pipe
(English Translation)**

Issued on: August 1, 2007

Implemented on: December 1, 2007

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

Table of Contents

Foreword	
1 Scope	
2 Normative references	
3 Terms, definitions, symbols and abbreviations	
3.1 Terms and definitions	
3.2 Symbol	
3.3 Abbreviations	
4 Classification and marking	
4.1 Classification	
4.2 Mark	
5 Material	
5.1 Plastic	
5.2 Wire	
5.3 Steel plate	
5.4 Metal Materials	
5.5 Pipe steel mesh structure, the minimum diameter of steel wire and the number of	
5.6 Pipe the minimum thickness of the plate	
5.7 Back to the material	
6 Requirements	
6.1 Working temperature	
6.2 Appearance and color	
6.3 The basic dimensions of pipe, deviation and nominal pressure	
6.4 The basic dimensions of fittings, deviation and nominal pressure	
6.5 Physical and mechanical properties	
6.6 Health Performance	
6.7 Chemical Resistance	
6.8 Thermal stability	
6.9 Melt Mass Flow Rate	
6.10 Plastic fused tube physical and chemical properties	
7 Test method	
7.1 Sample conditioning and testing of the standard environment	
7.2 Appearance and color inspection	

7.3 Pipe size inspection specifications

7.4 Pipe size specifications inspection

7.5 Physical and mechanical properties test

7.6 Hygienic performance test

7.7 Chemical resistance test

7.8 Thermal stability test

7.9 Melt mass flow rate test

7.10 Plastic fused tube physical and chemical properties of the test

Inspection rules

8.1 Factory inspection

8.2 Type test

9 Logo, packaging, transportation, storage

9.1 Mark

9.2 Packaging

9.3 Transportation

9.4 Storage

Appendix A (Informative) Plastic fused pipe shape and basic dimensions

Appendix B (Informative) Steel frame plastic composite fused pipe shape and basic dimensions

Appendix C (informative) steel skeleton plastic composite pipe shape and basic dimensions

Foreword

This standard is the revision of CJ/T 189-2004, the main reference in the revision of GB/T 13663-2000 "polyethylene for water supply (PE) pipes ", GB/T 13663.2-2005" Polyethylene (PE) pipelines for water supply - Part 2. Fittings "and GB 15558.1-2003 Buried Polyethylene (PE) Gas Pipeline Systems Part 1. Pipe and GB 15558.2-2005 Gas Buried polyethylene (PE) piping systems Part 2. Pipe fittings "and other national standards.

This standard from the date of implementation instead of CJ/T 189-2004 "steel mesh plastic skeleton (polyethylene) composite pipe", and CJ/T 189-2004 Comparison of the main changes as follows.

--- Standard name was revised as. Chinese "steel mesh plastic skeleton (polyethylene) composite pipe and fittings";

English "Steel wire reinforced thermoplastics (PE) composite pipe and fitting";

--- English abbreviation "PSP" revised as "SRTP";

- Increase in the standard pipe content, divided into three types of pipe fittings and steel mesh skeleton plastic (polyethylene) composite pipe supporting the use of;
- The scope has been revised;
- Reference to "normative references" has been revised;
- A separate chapter on the preparation of the material, and removed the "PE-RT, PP-R" material content, an increase of hot-melt adhesive pipe technology Index
- For the original pressure level. "ordinary tube" and "strengthen the tube" two series of composite pipe, revised as. "water, special fluid pipe" 7 Pressure level, "gas pipe" 5 pressure levels;
- Press the revised pipe wall thickness, wire diameter and the number of steel;
- The temperature and pressure correction factor was revised, the temperature 60 °C as the upper limit;
- In Chapter 5 and Chapter 6 removed the "gas-resistant properties of components" requirements and tests, and an increase of "hydrostatic stability of the composite layer Sexual, thermal stability, melt mass flow rate "requirements and test content;
- The "composite pipe storage period of not more than two years," canceled.

This standard proposed by the Ministry of Construction, People's Republic of China Institute of fixed standards.

This standard by the People's Republic of China Ministry of Construction Water Supply and Drainage Products Standardization Technical Committee.

The standard editor. Guangdong Oriental Pipe Co., Ltd.

This standard unit. Guangzhou Design Institute, Sichuan Jinshi Oriental New Materials and Equipment Co., Ltd., Huang Sheng Pipe Industry Group Co., Ltd..

1 Scope

This standard specifies the steel mesh skeleton plastic (polyethylene) composite pipe and fittings (hereinafter referred to as pipe or fittings) terms, definitions, symbols and abbreviations, classification and marking, materials, requirements, test methods, inspection rules and signs, packaging, transportation and storage.

This standard applies to urban water supply, urban gas, building water supply, fire water supply and special fluids (including the appropriate use of industrial waste water, Corrosive gas slurry, solid powder, etc.) delivery pipe and fittings.

This standard specifies the use of polyethylene (PE) other than similar plastic, may refer to the implementation of this standard.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. All dated references, which are subsequently owned Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to reach an agreement based on this standard research Whether you can use the latest versions of these files. For undated references, the latest version applies to this standard.

GB/T 1844.1 plastic and resin abbreviations Code Part 1. Basic polymers and their characteristic properties (neq ISO 1043-1. 1987) GB/T 2035 Plastics Terms and Definitions (eqv ISO 472. 1988) GB/T 2791 adhesive T peel strength test methods flexible materials to flexible materials GB/T 2828.1 Sampling procedures for inspection - Part 1. Batch inspection sampling plan by acceptance quality limit (AQL) GB/T 2829 cycle test count sampling procedures and tables (for the stability of the test process) GB/T 2918 plastic sample conditioning and testing of the standard environment (idt ISO 291.:1997) GB/T 3681 plastic atmosphere exposure test method (neq ISO 877.:1994) GB/T 3682 Thermoplastics melt mass flow rate and melt volume flow rate determination (idt ISO 1133.:1997) GB/T 4217-2001 Thermoplastics pipes for fluid delivery Nominal outside diameter and nominal pressure (idt ISO 161-1.:1996) GB/T 8806 plastic pipe dimensions measurement method (eqv ISO 3126. 1974) GB 11253 carbon structural steel and low alloy structural steel cold rolled steel sheet and strip GB/T 13663 water supply polyethylene (PE) pipe GB/T 13663.2 Polyethylene (PE) piping systems for water supply - Part 2. Fittings GB/T 14450 bead wire GB 15558.1 Buried polyethylene (PE) piping systems for gas - Part 1. Tubing GB 15558.2 Buried polyethylene (PE) piping systems for gas - Part 2. Pipe fittings Fluidized plastic pipes - Hydraulic instantaneous burst and pressure test methods GB/T 17219 drinking water distribution equipment and protective materials safety evaluation criteria GB/T 17391 Polyethylene pipe and fittings thermal stability test method (eqv ISO/T R10837..1991) GB/T 18997.1 aluminum-plastic composite pressure pipe - Part 1. aluminum pipe lap welded aluminum-plastic pipe

3.1 Terms and definitions

GB/T 1844.1 and GB/T 2035 and established in the following terms and definitions apply to this standard.

3.1.1

Pipe

3.1.1.1

Steel mesh skeleton plastic (polyethylene) composite pipe