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

GB/T 22051-2008

**Cold-expansion fittings with sliding compression-sleeves for
cross-linked polyethylene (PE-X) pipe**

交联聚乙烯(PE-X)管用滑紧卡套冷扩式管件

(English Translation)

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Foreword

This standard and ASTM F2080-05 "cross-linked polyethylene (PE-X) pipes cold-expanded metal compression ferrule fittings," the degree of non-conformity Equivalent. The main technical differences between this standard and ASTM F2080-05 follows.

--- The American series nominal size nominal size change to metric series male will change US-made pipe thread BSP;

--- The maximum operating temperature of the pipe from 82 °C to 90 °C, the maximum working pressure from 0.69MPa to 1.0MPa;

--- Increasing the pipe body airtight performance requirements;

--- Change the system suitability requirements and test methods for fittings;

--- Cancel About metric table assembly drawings and appendices;

--- Increase slip tight connection sleeve cold expansion fittings and pipes are attached as Appendix A.

Appendix A of this standard is a normative appendix.

Please note that some of the content of this standard may involve patents. The standard release mechanism should not bear the responsibility to identify these patents.

The standard proposed by China National Light Industry Council.

This standard by the National Plastics Standardization Technical Committee (SAC/TC48) centralized.

This standard was drafted. Zhejiang World Water Control Co., Ltd., Shanghai-speed Jetta Pipeline Engineering Technology Co., Ltd. Shanghai Han Wei pipeline Engineering Technology Co., Ltd. Light Industry Institute of Plastics Processing Applications, Shanghai Polytechnic University, Foshan Plastics Group Co., Ltd. Jingwei points the company.

1 Scope

This standard specifies the cross-linked polyethylene (PE-X) pipes tight sliding sleeve cold expansion connector tube (hereinafter referred to as the tube) terms and definitions, points Classes and marking, materials, requirements, test methods, inspection rules and signs, packaging, transportation and storage.

This standard applies to the operating temperature does not exceed 90 °C, working pressure is less than 1.0MPa building plumbing systems, including Industrial and civilian use of hot and cold water, drinking water and heating systems.

This standard does not apply to fire extinguishing systems and fluid delivery system non-aqueous medium.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2828.1-2003 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch test sample Programme (ISO 2859-1:1999, IDT) GB/T 5231-2001 processing of copper and copper alloy chemical composition and shape of the product GB/T 6111-2003 Test method for conveying fluid pressure within the thermoplastic pipe (ISO 1167:1996, IDT) GB/T 7306.1-2000 55 ° sealing pipe thread - Part 1. the inner cylindrical thread and taper external thread (ISO 7-1:1994, EQV) GB/T 7306.2-2000 55 ° sealing pipe thread Part 2. internal Taper internal and external threads (ISO 7-1:1994, EQV) GB/T 7307-2001 55 ° non-sealing pipe thread (ISO 228-1:1994, EQV) GB/T 10922-2006 55 ° non-sealing pipe thread gauge (ISO 228-2. 1987, MOD) GB/T 15820-1995 pressure polyethylene pipes and fittings connected to pull resistance test (ISO 3501. 1976, EQV) GB/T 17219 in drinking water safety equipment and protective materials evaluation criteria GB/T 18992.1-2003 plumbing systems with partially cross-linked polyethylene (PE-X) 1. General GB/T 18992.2-2003 and cold water - Part 2 cross-linked polyethylene (PE-X) pipe systems. pipe GB/T 19278-2003 Thermoplastics pipes, fittings and valves General terms and their definitions GB/T 19993-2005 and cold water piping systems thermoplastic pipe fittings combined system thermal cycling test method GB/T 20078-2006 Copper and copper alloy forgings ISO 7-2:2000 thread sealing pipe thread portion connected to the second. limit gauges verification

3 Terms and Definitions

GB/T 18992.1-2003, GB/T 19278-2003 and established the following terms and definitions apply to this standard.

Play in the piping system is connected, plugging, or change the direction of flow diversion effect parts.

Body parts and fittings for pipe and other piping components connected.