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

CJ/T 159-2015

Replacing CJ/T 159-2006

**Polyolefin/aluminum/polyolefin composite pressure pipe
(butt-welded by aluminum pipe)
(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 applies to the modification of PP-RCT material requirements using ISO 15874-1 "plumbing and plumbing systems - polypropylene - Part 1. General" in the PP-RCT material requirements.

This standard replaces CJ/T 159-2006 "aluminum-plastic composite pressure pipe (butt welding)." This standard compared with CJ/T 159-2006 main technology the changes are as follows.

- Revised the production of pipe, pipe fittings used in the requirements of heat-resistant polyethylene material;
- Increased inner and outer plastic random copolymer of polypropylene six-type aluminum-plastic composite pipe;
- Increasing the production of pipe, pipe fittings used random copolymerization polypropylene material requirements;
- Increasing the minimum average tube ring high temperature peel strength requirements and test methods;
- Remove the original standard Appendix A, Appendix B, Appendix C, Appendix D, Appendix F.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Water Supply and Drainage Standardization Technical Committee building centralized.

This standard was drafted. Wuhan Jinniu Economic Development Co., Ltd., the State Chemical Building Materials Testing Center, China Academy of Architectural Design Limited the company.

1 Scope

This standard specifies the terms and definitions, symbols and abbreviations, classification and marking, materials, requirements, test Inspection methods, inspection rules, marking, packaging, transportation and storage.

This standard applies to the transport of fluids (cold water, hot water drinking water distribution system and water supply and distribution systems; heating systems, gas, etc.) of aluminum Composite pressure pipe.

2 Normative references

The following documents for the application of this document is essential. 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 228 metallic materials at room temperature tensile test method GB/T 1033.1-2008 Plastics - Determination of density of non-foamed plastics - Part 1. Immersion method, liquid pycnometer method and titration method (idtISO 1183-1..2004) GB/T 2828.1 Sampling procedures for inspection - Part 1. Batch inspection sampling plan by acceptance quality limit (AQL) (idtISO 2859-1) GB/T 2918 plastic sample conditioning and testing of the standard environment (idtISO 291) GB/T 6111 fluid-filled thermoplastic tubing withstanding pressure test method (idtISO 1167) GB/T 8806 Plastics piping systems - Determination of dimensions of plastic parts (idtISO 3126) GB/T 13021 Polyethylene pipes and fittings - Determination of carbon black content - Thermal weight loss method (neqISO 6964) GB 15558.1 Buried polyethylene (PE) piping systems for gas - Part 1. Tubing 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 18474 Crosslinked polyethylene (PE-X) pipe and tube cross-linked degree of test method (eqvISO 10147) Polypropylene piping systems for hot and cold water GB/T 18742.1 Part 1. General GB/T 18997.1-2003 Aluminum-plastic composite pressure pipe - Part 1. Aluminum pipe lap welded aluminum-plastic composite pipe GB/T 18997.2-2003 Aluminum-plastic composite pressure pipe - Part 2. Butt-welded aluminum-plastic composite pipe GB/T 19466.3 Plastics - Differential scanning calorimetry (DSC) - Part 3. Determination of melting and

crystallization temperature and enthalpy (idt ISO 11357-3) GB/T 28799.1 hot and cold water with heat-resistant polyethylene (PE-RT) piping systems - Part 1. General ISO 15874-1 Piping systems for hot and cold water - Polypropylene - Part 1. General

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Plastic composite pressure pipe (butt welding)

polyolefin/aluminum/polyolefin composite pressure pipe (butt-welded)