



**Mechanical jointing fittings for use with
crosslinked polyethylene (PE-X) for
pressure applications**

**Part 4: Plastics piping systems for hot
and cold water installations—
Crosslinked polyethylene (PE-X)—
Guidance for the assessment of
conformity (ISO/TS 15875-7:2003, MOD)**



This Australian Standard® was prepared by Committee PL-006, Polyolefin Pipe Systems. It was approved on behalf of the Council of Standards Australia on 23 March 2011. This Standard was published on 13 April 2011.

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- Certification Interests (Australia)
 - Energy Networks Association
 - Engineers Australia
 - Master Plumbers, Gasfitters and Drainlayers New Zealand
 - National Plumbing Regulators Forum
 - New Zealand Water and Waste Association
 - Plastics Industry Pipe Association of Australia
 - Plastics New Zealand
 - Plumbing Products Industry Group
 - Water Services Association of Australia
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL-006, Polyolefin Pipe Systems to supersede, in part, AS 2537—1994, *Mechanical jointing fittings for use with crosslinked polyethylene (PE-X) pipe for hot and cold water applications*.

This Standard incorporates Amendment No. 1 (December 2018). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

A1 | Amendment No. 1 to this Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee PL-006, *Polyolefin Pipe Systems*. As a consequence of Amendment No. 1, which was published as an Australian-only Amendment, the designation of this Standard has been changed from AS/NZS 2537.4:2011 to AS 2537.4:2011.

This Standard is an adoption with national modifications and has been reproduced from ISO/TS 15875-7:2003, *Plastics piping systems for hot and cold water installations—Crosslinked polyethylene (PE-X), Part 7: Guidance for the assessment of conformity*. The modifications and additional requirements are set out in Appendix ZZ. Appendix ZA has been included to specify requirements on means of demonstrating compliance with this Standard.

The objective of this Standard is to specify the general requirements to demonstrate fitness for purpose of mechanical jointing fittings made for use with crosslinked polyethylene pipes in hot and cold water applications.

Other parts of AS/NZS 2537 are:

AS/NZS

- | | |
|--------|---|
| 2537.1 | Part 1: Plastics piping systems for hot and cold water installations—Crosslinked polyethylene (PE-X)—General (ISO 15875-1, MOD) |
| 2537.2 | Part 2: Plastics piping systems for hot and cold water installations—Crosslinked polyethylene (PE-X)—Fittings (ISO 15875-3:2003, MOD) |
| 2537.3 | Part 3: Plastics piping systems for hot and cold water installations—Crosslinked polyethylene (PE-X)—Fitness for purpose of the system (ISO 15875-5:2003, MOD) |
| 2537.5 | Part 5: Plastics pipes and fittings—Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels—Metric series—Specifications—Fittings for mechanical jointing (including PE-X/metal transitions) (ISO 14531-3:2006, MOD) |

As this Standard is reproduced from an International Technical Specification, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this Technical Specification’ should read ‘this part of AS 2537’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

Statements expressed in normative terms in footnotes to tables are deemed to be requirements of this Standard.

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AUSTRALIAN STANDARD

Mechanical jointing fittings for use with crosslinked polyethylene (PE-X) pipe for pressure applications

Part 4:

Plastics piping systems for hot and cold water installations—Crosslinked polyethylene (PE-X)—Guidance for the assessment of conformity (ISO/TS 15875-7:2003, MOD)

1 Scope

This Technical Specification gives guidance for the assessment of conformity to be included in the manufacturer's quality plan as part of his quality system.

This Technical Specification includes:

- a) requirements for materials, components, joints and assemblies given in the applicable Part(s) of EN ISO 15875;
- b) requirements for the manufacturer's quality system;

NOTE 1 It is recommended that the quality system conforms to EN ISO 9001:2000^[2].

- c) definitions and procedures to be applied if third party certification is involved.

NOTE 2 If third party certification is involved, it is recommended that the certification body is accredited to EN 45011^[3] or EN 45012^[4], as applicable.

In conjunction with the other parts of EN ISO 15875(see Foreword), this Technical Specification is applicable to crosslinked polyethylene (PE-X) piping systems intended to be used for hot and cold water installations within buildings for the conveyance of water, whether or not intended for human consumption (domestic systems) and for heating systems, under design pressures and temperatures appropriate to the class of application (see Table 1 of EN ISO 15875:2003).

2 Normative references

This Technical Specification incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of, any of these publications apply to this Technical Specification only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN ISO 15875-1:2003, *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X) — Part 1: General*

EN ISO 15875-2:2003, *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X) — Part 2: Pipes*

EN ISO 15875-3:2003, *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X) — Part 3: Fittings*

EN ISO 15875-5:2003, *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X) — Part 5: Fitness for purpose of the system*

ISO 2859-1:1999, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptable quality limit (AQL) for lot-by-lot inspection*

ISO 3951:1989, *Sampling procedures and charts for inspection by variables for percent nonconforming*

3 Definitions, symbols and abbreviations

For the purposes of this Technical Specification, the definitions, symbols and abbreviations given in Part 1 and Part 3 of EN ISO 15875:2003 apply, together with the following.

3.1 Definitions**3.1.1****certification body**

impartial body, governmental or non-governmental, possessing the necessary competence and responsibility to carry out certification of conformity according to given rules of procedure and management