

Australian/New Zealand Standard™

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

**Part 2: Plastics piping systems for hot
and cold water installations—
Crosslinked polyethylene (PE-X)—
Fittings (ISO 15875-3:2003, MOD)**



AS/NZS 2537.2:2011

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL-006, Polyolefin Pipe Systems. It was approved on behalf of the Council of Standards Australia on 23 March 2011 and on behalf of the Council of Standards New Zealand on 18 March 2011.

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The following are represented on Committee PL-006:

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
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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 (August 2011). 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.

This Standard is an adoption with national modifications and has been reproduced from ISO 15875-3:2003, *Plastics piping systems for hot and cold water installations—Crosslinked polyethylene (PE-X), Part 3: Fittings*. The modifications and additional requirements for application of ISO 15875-3 in Australia and New Zealand are set out in Appendix ZZ.

The objective of this Standard is to specify the general aspects 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)
- 2537.3 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)
- 2537.4 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)
- 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 Standard, 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 part of EN ISO 15875’ should read ‘this part of AS/NZS 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.

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AUSTRALIAN/NEW ZEALAND STANDARD

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

Part 2:

**Plastics piping systems for hot and cold water installations—
Crosslinked polyethylene (PE-X)—Fittings (ISO 15875-3:2003, MOD)****1 Scope**

This Part of EN ISO 15875 specifies the characteristics of fittings for 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 15875-1:2003).

This standard covers a range of service conditions (application classes) and design pressure classes. For values of T_D , T_{max} and T_{mal} in excess of those in Table 1 of Part 1, this standard does not apply.

NOTE It is the responsibility of the purchaser or specifier to make the appropriate selections from these aspects, taking into account their particular requirements and any relevant national regulations and installation practices or codes.

It also specifies the test parameters for the test methods referred to in this standard.

In conjunction with the other Parts of EN ISO 15875:2003 (see Foreword) it is applicable to fittings made from crosslinked polyethylene (PE-X) and to fittings made from other materials which are intended to be fitted to pipes conforming to EN ISO 15875-2:2003 for hot and cold water installations and whereby the joints conform to the requirements of EN ISO 15875-5.

This standard is applicable to fittings of the following types:

- mechanical fittings;
- electrofusion fittings;
- fittings with incorporated inserts.

2 Normative references

This Standard 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 Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 578, *Plastics piping systems — Plastics pipes and fittings — Determination of the opacity*