

AS/NZS 4131:2003
(Incorporating Amendment No. 1)

AS/NZS 4131:2003

Australian/New Zealand Standard™

**Polyethylene (PE) compounds for
pressure pipes and fittings**



AS/NZS 4131:2003

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 28 February 2003 and on behalf of the Council of Standards New Zealand on 20 February 2003.

This Standard was published on 18 March 2003.

The following are represented on Committee PL-006:

Australian Gas Association
CSIRO Manufacturing and Infrastructure Technology
Certification Bodies (Australia)
Institution of Engineers
Master Plumbers, Gasfitters and Drainlayers New Zealand
New Zealand Water and Waste Association
Plastics Industry Pipe Association of Australia
Plastics New Zealand
Water Services Association of Australia

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 02523.

AS/NZS 4131:2003
(Incorporating Amendment No. 1)

Australian/New Zealand Standard™

Polyethylene (PE) compounds for pressure pipes and fittings

Originated in Australia in part as AS K125—1963.
Originated in New Zealand in part as NZS 1189:1953. (endorsement
of BS 1973:1953).
Previous edition AS/NZS 4131:2001.
Third edition 2003.
Reissued incorporating Amendment No. 1 (May 2005).

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 5103 2

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committees PL-006, *Polyolefin Pipe Systems*, to supersede AS/NZS 4131—2001, Polyethylene (PE) compounds for pressure pipes and fittings.

This Standard incorporates Amendment No. 1 (May 2005). 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.

The objective of this Standard is to provide a standard specification for manufacturers and purchasers of these products.

This document is based largely on the latest ISO and CEN documents and consequently provides for compatibility of compounds of different origin.

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 mandatory terms in notes to tables and figures are deemed to be requirements of this Standard. Other notes are for information only.

CONTENTS

| | <i>Page</i> |
|--|-------------|
| 1 SCOPE AND APPLICATION | 4 |
| 2 REFERENCED DOCUMENTS | 4 |
| 3 DEFINITIONS | 5 |
| 4 COMPOSITION | 6 |
| 5 VOLATILE CONTENT | 7 |
| 6 CLASSIFICATION | 7 |
| 7 LOWER PREDICTION LIMIT OF THE PREDICTED HYDROSTATIC STRENGTH (σ_{LPL}) | 8 |
| 8 RESISTANCE TO INTERNAL PRESSURE | 8 |
| 9 SLOW CRACK GROWTH RESISTANCE | 9 |
| 10 WEATHERING RESISTANCE | 9 |
| 11 EFFECT ON WATER | 9 |
| 12 MARKING | 9 |

APPENDICES

| | | |
|---|--|----|
| A | MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD | 10 |
| B | METHOD FOR DETERMINING RESISTANCE TO INTERNAL PRESSURE | 15 |
| C | METHOD FOR DETERMINING WEATHERING RESISTANCE FOR EXTERNAL STORAGE | 19 |

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-