

AS 4014.1:2024



STANDARDS
Australia



Domestic solid fuel burning appliances — Test fuels

Part 1: Hardwood



AS 4014.1:2024

This Australian Standard™ was prepared by Joint Technical Committee CS-062, Solid Fuel Burning Appliances. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 08 May 2024.

This Standard was published on 7 June 2024.

The following are represented on Committee CS-062:

- Australasian Fire and Emergency Service Authorities Council
- Australian Chamber of Commerce and Industry
- Australian Home Heating Association
- Australian Industry Group
- Australian Solid Fuel Testing (Testing Interests Australia)
- Clean Air Society of Australia & New Zealand
- Department of Climate Change, Energy, the Environment and Water
- Department of Planning and Environment (NSW)
- Department of Water and Environmental Regulation (WA)
- Environment, Planning and Sustainable Development Directorate
- Firewood Association of Australia
- National Association of Testing Authorities Australia
- National Retail Association Australia
- The University of Adelaide

This Standard was issued in draft form for comment as DR AS 4014.1:2023.

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ISBN 978 1 76139 648 9

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Originated in Australia as AS 4014.1—1992.
Originated in New Zealand as NZS 7404.1:1992.
Jointly revised, amalgamated and redesignated as AS/NZS 4014.1:1999.
Revised and redesignated as AS 4014.1:2024.

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Preface

This Standard was prepared by the Australian members of Joint Standards Australia/New Zealand Committee CS-062, Solid Fuel Burning Appliances, to supersede AS/NZS 4014.1:1999.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to specify a method for the determination of hardwood test fuels for the application of the test methods in AS/NZS 4012 and AS/NZS 4013. Determination of reliable and repeatable test results when testing appliances for conformance to these Standards is essential and requires control of many factors. This document has been prepared to provide testing agencies with means for preparing consistent batches of test fuels so that the test results produced when testing different appliances may be readily compared and correlated.

This document is Part 1 of the AS(/NZS) 4014 series used when testing solid fuel burning appliances. A list of all parts in the AS/NZS 4014 series can be found in the Standards Australia online catalogue. Other Parts in this series are as follows:

- (a) AS/NZS 4014.2, *Domestic solid fuel burning appliances—Test fuels, Part 2: Softwood.*
- (b) AS/NZS 4014.3, *Domestic solid fuel burning appliances—Test fuels, Part 3: Lignite briquettes.*
- (c) AS/NZS 4014.4, *Domestic solid fuel burning appliances—Test fuels, Part 4: Sub-bituminous coal.*

The fuel types listed in this series of Standards are not exhaustive. The fuel types referred to in this series are only intended for use when testing appliances to be installed and operated in Australia and New Zealand. To achieve wider use of these Standards when testing appliances for conformance to AS/NZS 4012 and AS/NZS 4013, they have been structured to allow additional test fuel types to be added when the fuel type commonly used is different.

The major changes in this edition are as follows:

- (i) This document has been updated to include the use of a moisture balance to determine fuel moisture content. A Calorific value range for the test fuels has been added.
- (ii) The limit for the ash content of the fuel has been increased to 0.6 %.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.