



General-purpose natural gas



AS 4564:2020

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- Australian Energy Market Operator
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- Australian Pipeline And Gas Association
- Energy Networks Australia
- Gas Appliance Manufacturers Association of Australia
- Gas Energy Australia
- Gas Technical Regulators Committee
- National Energy Resources Australia

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Preface

This Standard was prepared by the Standards Australia Committee AG-010, Natural Gas Quality Specifications, to supersede AS 4564—2011.

The objective of this Standard is to provide purchasers, transporters and users of natural gas with a product that is safe to use and handle, and to provide certainty of quality and performance for designers and manufacturers of appliances, equipment and vehicles which use natural gas.

The major changes in this edition are as follows:

- (a) Clarification and simplification to reduce misinterpretation and misapplication.
- (b) Inclusion of requirements for odorization when required by an application.

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

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Introduction

This Standard sets out the requirements for providing natural gas, suitable for both transportation and general-purpose use and provides the range of gas properties consistent with safe operation of natural gas appliances.

It specifies general-purpose natural gas, with an emphasis on the safety of the gas for use in natural gas appliances and equipment and for use as fuel in natural gas vehicles. It therefore aims to provide certainty for appliance manufacturers who supply the Australian market.

While natural gas conforming to this Standard is suitable for transportation through pipelines, the Committee has noted that fast tearing fracture control required by AS 2885.1 is dependent on gas composition. However, the Committee has not taken pipeline fracture into consideration in determining the gas composition limits. Management of fracture in new and existing gas pipelines remains the responsibility of the pipeline designer and operator.

Australian Standard®

General-purpose natural gas

Section 1 Scope

This Standard sets out requirements for the safe composition, transportation and supply of general-purpose natural gas for use in natural gas appliances and equipment, and for use as fuel in natural gas vehicles.

This Standard applies to natural gas that is —

- (a) from petroleum, landfill, biogas, coal seam and other sources that provide gas for direct or blended supply on a commercial basis through supply systems serving general purpose customers; and
- (b) transported and supplied to users for use in natural gas appliances and equipment conforming to the relevant Standards, including natural gas-powered vehicles, natural gas compressors and refuelling facilities.

General purpose natural gas is also subject to legislative requirements relating to quality and may be subject to contractual requirements and variations. Such variations are not within the scope of this Standard.

NOTE [Appendices A, B](#) and [C](#) provide further information and guidance on gas properties, additional issues to be considered in contracts, and test methods used to verify conformance.

Gas conforming to this Standard is safe for use as a general-purpose natural gas but is not necessarily fit for purpose in other applications such as a dedicated supply to an industrial user. The Standard is not intended to apply to natural gas for supply as a process feedstock but may provide a basis for such a specification. General purpose natural gas may not be from a dedicated source and may be formed by blending gas from different supplies.