AS 1450—2007
Reconfirmed 2017

Australian Standard®

Steel tubes for mechanical purposes

This Australian Standard® was prepared by Committee MT-001, Iron and Steel. It was approved on behalf of the Council of Standards Australia on 7 May 2007.
This Standard was published on 9 October 2007.

The following are represented on Committee MT-001:

- Australasian Railway Association
- Australian Building Codes Board
- Australian Foundry Institute
- Australian Industry Group
- Bureau of Steel Manufacturers of Australia
- Materials Australia

This Standard was issued in draft form for comment as DR 06602.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 1450—2007
Steel tubes for mechanical purposes

RECONFIRMATION NOTICE

Technical Committee MT-001 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 04 June 2017.

The following are represented on Technical Committee MT-001:

Australian Building Codes Board
Australian Steel Association
Australian Steel Institute
Bureau of Steel Manufacturers of Australia
Employers and Manufacturers Association
Materials Australia
New Zealand Heavy Engineering Research Association
Society of Automotive Engineers- Australasia

NOTES

Australian Standard®

Steel tubes for mechanical purposes

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-001, Iron and Steel, to supersede AS 1450—1983, *Steel tubes for mechanical purposes*.

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

The objective of the Standard is to specify the general technical delivery requirements for carbon steels and carbon-manganese steels tubes of round, square, rectangular or other non-circular cross-sections that have been either cold or hot formed.

The objective of this revision is to update the referenced documents and to apply current style.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

CONTENTS

STANDARDS AUSTRALIA

Australian Standard
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1 SCOPE

This Standard specifies requirements for the production and supply of carbon and carbon-manganese steel tubes of round, square, rectangular or other non-circular cross-section produced by either cold-forming or hot-forming, and intended for use in mechanical applications.

NOTES:

1 The purchasing requirements that should be specified by the purchaser at the time of enquiry or order are referred to in Appendix A.

2 The means for demonstrating compliance with the Standard is shown in Appendix B.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1171	Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures
1199	Sampling procedures for inspection by attributes
1199.0	Part 0: Introduction to the ISO 2859 attribute sampling systems
1199.1	Part 1: Sampling schemes indexed by acceptance quality limits (AQL) for lot-by lot inspection
1391	Metallic materials—Tensile testing at ambient temperature
2084	Non-destructive testing—Eddy current testing on metal tubes
2706	Numerical values—Rounding and interpretation of limiting values
AS/NZS	
1050	Methods for the analysis of iron and steel
1050.1	Part 1: Sampling iron and steel for chemical analysis
AS/NZS ISO	
9001	Quality management systems—Requirements
9004	Quality management systems—Guidelines for performance improvements
HB 18.28	Conformity assessment—Guidance on a third-party certification system for products
ISO	
2566	Steel—Conversion of elongation values
2566-1	Part 1: Carbon and low alloy steels

3 DEFINITIONS

For the purpose of this Standard, the following definitions apply:

