AS 1085.15—1995

Australian Standard®

Railway permanent way material

Part 15: Aluminothermic rail welding

This Australian Standard was prepared by Committee CE/2, Railway Permanent Way Materials. It was approved on behalf of the Council of Standards Australia on 28 October 1994 and published on 5 April 1995.

The following interests are represented on Committee CE/2:
Bureau of Steel Manufacturers of Australia
Cement and Concrete Association of Australia
Rail Track Association Australia
Railways of Australia Committee

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PREFACE

This Standard was prepared by the Standards Australia Committee on Railway Permanent Way Materials.

The objective of this Standard is to provide Australian railway authorities with requirements for the supply of aluminothermic welding materials for steel rail.

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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STANDARDS AUSTRALIA

Australian Standard

Railway permanent way material

Part 15: Aluminothermic rail welding

1 SCOPE This Standard sets out the requirements for the supply of aluminothermic welding materials for steel rail.

NOTES:

- 1 Guidelines to purchasers on information needing to be supplied at the time of calling tenders or quotations are detailed in Appendix A.
- 2 Alternative means for determining compliance with this Standard are given in Appendix B.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS 1085 1085.1 1085.11	Railway permanent way material Part 1: Steel rails Part 11: Head-hardened rails
1199	Sampling procedures and tables for inspection by attributes
1399	Guide to AS 1199—Sampling procedures and tables for inspection by attributes
1816	Metallic materials—Brinell hardness test
2193	Methods for calibration and grading of force-measuring systems of testing machines
2205 2205.5.1 2205.6.1	Methods of destructive testing of welds in metal Part 5.1: Metallographic tests—Macro test—Cross-section examination Part 6.1: Hardness tests—Weld joint hardness test
2207	Methods for the ultrasonic testing of fusion welded joints in steels
AS/NZS ISO 9000 ISO 9000.1 ISO 9004 ISO 9004.1	Quality management and quality assurance standards Part 1: Guidelines for selection and use Quality management and quality system elements Part 1: Guidelines
SAA HB18 HB18.44	Guidelines for third-party certification and accreditation Guide 44—General rules for ISO and IEC international third-party certification schemes for products
AREA	Part 4: Manual for railway engineering: Rail

3 **DEFINITIONS** For the purpose of this Standard, the definitions below apply.

3.1 Administrative definitions

- **3.1.1** Approved (approval)—approved by or approval of the regulatory authority.
- **3.1.2** Authorized—authorized by the regulatory authority or its nominated representative.



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