AS 4797—2009

Australian Standard®

Stainless steel chain for lifting purposes

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- Australian Chamber of Commerce and Industry
- Australian Forging Group
- Australian Industry Group
- Australian Maritime Safety Authority
- Department of Defence (Australia)
- Engineers Australia
- Institute of Quarrying Australia
- National Association of Testing Authorities Australia
- Victorian WorkCover Authority
- WorkCover New South Wales

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-025, Lifting Tackle.

The objective of this Standard is to provide requirements for the safe and fit-for-purpose specification of stainless steel chain for lifting purposes for reference by users, manufacturers, suppliers and regulators.

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.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

CONTENTS

STANDARDS AUSTRALIA

Australian Standard
Stainless steel chain for lifting purposes

1 SCOPE

This Standard specifies requirements for non-calibrated short-link stainless steel chain for lifting purposes, manufactured from electrically welded round stainless steel short links.

NOTES:

1 Guidance on information that should be supplied with enquiries and orders is given in Appendix A.

2 Standards for components that are used in lifting systems are listed in Appendix B.

2 APPLICATION

Stainless steel chains are typically used in corrosive environments for a wide range of specialized industrial lifting applications. Such specialized applications include, but are not limited to, the food, pharmaceutical, chemical, fishing, water and waste water industries.

Where stainless steel chain is selected for properties other than corrosion resistance, subject to competent assessment, chain in the as-welded condition may be adequate.

Care and use of chain shall be in accordance with Appendix C.

3 NORMATIVE REFERENCES

The following documents are indispensable to the application of this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

1418	Cranes, hoists and winches
1418.1	Part 1: General requirements
2193	Methods for calibration and grading of force-measuring systems of testing machines
2205	Methods for destructive testing of welds in metal
2205.10.1	Method 10.1:Corrosion test for welded austenitic stainless steel

ASTM

A276	Standard Specification for Stainless Steel Bars and shapes
A580/A580M	Standard Specification for Stainless Steel Wire

4 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

4.1 Barrel

The straight side of a link, which may include the weld zone adjoining the curved ends.

4.2 Breaking force

The maximum force that a chain test sample withstands during a destruction test.

