

Australian Standard<sup>®</sup>

**Chain slings—Grade T**

**Part 1: Product specification**



This Australian Standard® was prepared by Committee ME-025, Lifting Tackle. It was approved on behalf of the Council of Standards Australia on 11 December 2003. This Standard was published on 7 April 2004.

---

The following are represented on Committee ME-025:

- Australian Chamber of Commerce and Industry
  - Australian Forging Group
  - Australian Industry Group
  - Australian Maritime Safety Authority
  - Crane Industry Council of Australia
  - Department of Defence
  - Department of Infrastructure, Energy and Resources (Tasmania)
  - Institute of Quarrying Australia
  - Institution of Engineers, Australia
  - National Association of Testing Authorities Australia
  - Victorian WorkCover Authority
  - WorkCover New South Wales
- 

This Standard was issued in draft form for comment as DR 98370.

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 public comment period.

---

### **Keeping Standards up-to-date**

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting [www.standards.org.au](http://www.standards.org.au)

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.org.au](mailto:mail@standards.org.au), or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

Australian Standard<sup>®</sup>

**Chain slings—Grade T**

**Part 1: Product specification**

Originated as part of AS 3775—1995.  
Revised and redesignated in part as AS 3775.1—2004.  
Reissued incorporating Amendment No. 1 (December 2006).

**COPYRIGHT**

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia  
ISBN 0 7337 5726 X

## PREFACE

This Standard was prepared by the Standards Australia Committee ME-025, Lifting Tackle, to supersede, in part, AS 3775—1990, *Chain slings—Grade T*.

*This Standard incorporates Amendment No. 1 (December 2006). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this standard is to provide requirements for the manufacture, marking and testing of Grade T chain slings.

This edition includes the following changes from the previous edition:

- (a) Clause 3.4.10 defines ‘upper terminal fitting’.
- (b) The term safe working load (SWL) has been deleted and the definition for working load limit (WLL) in Clause 3.9 has been amended, to align with international Standards.
- (c) The appendices for ‘care and use’ and ‘determination of working load limits’ have been revised and are published as AS 3775.2, *Chain slings—Grade T, Part 2: Care and use*.

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.

## CONTENTS

		<i>Page</i>
FOREWORD.....		4
	1 SCOPE.....	5
A1	2 REFERENCED DOCUMENTS.....	5
	3 DEFINITIONS.....	6
A1	4 MATERIAL (see Figure 2).....	8
	5 DESIGN AND MANUFACTURE.....	8
	6 MECHANICAL PROPERTIES .....	13
	7 MARKING .....	13
	8 TESTING OF MECHANICAL PROPERTIES .....	15
A1	9 PROOF TESTING .....	16
APPENDICES		
	A INFORMATION THAT SHOULD BE SUPPLIED WITH ENQUIRIES AND ORDERS .....	18
	B STANDARDS FOR COMPONENTS USED IN LIFTING SYSTEMS.....	19
	C CHAINS .....	20
	D CONDITIONS FOR APPLICATION OF TEST FORCES .....	21
	E MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD .....	22

## FOREWORD

In any lifting, tensioning, or staying system, the working load limit of each component has to take account of the conditions of use and be compatible with any loads inherent in, and applied to, the system, and each component should readily connect with each adjacent component. Therefore, it is important that components of lifting, tensioning or staying systems be quickly and positively identified in service for size, lifting capacity and quality grade.

The quality grading system in this Standard is the same as that used by other Australian Standards covering components in lifting, tensioning and staying systems. It allows for positive identification and easy selection, and relates to the mechanical properties of the finished product and not simply to the strength of the material.

# STANDARDS AUSTRALIA

## Australian Standard Chain slings—Grade T

### Part 1: Product specification

#### 1 SCOPE

This Standard specifies requirements for chain slings using Grade T chain complying with AS 2321.

##### NOTES:

- 1 AS 2321 specifies chain in terms of the ISO quality grade designation system. The ISO system also permits Grade T to be designated as Grade 8.
- 2 Guidance on information that should be supplied with enquiries and orders is given in Appendix A.
- 3 Recommendations for the care and use of Grade T chain slings are published as AS 3775.2.
- 4 Standards for components that are used in lifting systems are listed in Appendix B.

#### 2 REFERENCED DOCUMENTS

##### AS

- |        |  |
|--------|--|
| 1065   | Non-destructive testing—Ultrasonic testing of carbon and low alloy steel forgings                      |
| 1171   | Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures |
| 1199   | Sampling procedures for inspection by attributes (all parts)   |
| 1399   | Guide to AS 1199—Sampling procedures and tables for inspection by attributes                           |
| 1627   | Metal finishing—Preparation and pretreatment of surfaces   |
| 1627.0 | Part 0: Method selection guide   |
| 1816   | Metallic materials—Brinell hardness test   |
| 1816.1 | Method 1: Test method (ISO 6506-1:1999, MOD)   |
| 2193   | Calibration and classification of force-measuring systems  |
| 2321   | Short-link chain for lifting purposes  |
| 3775   | Chain slings—Grade T   |
| 3775.2 | Part 2: Care and use   |
| 3776   | Lifting components for Grade T chain slings  |
| 3978   | Non-destructive testing—Visual inspection of metal products and components                             |

##### AS/NZS

- |           |  |
|-----------|--|
| A1   4360 | Risk management  |
| ISO 9001  | Quality management systems—Requirements  |
| ISO 9004  | Quality management systems—Guidelines for performance improvements               |
| HB        | [Standards Australia Handbook]   |
| 18        | Guidelines for third-party certification and accreditation                       |
| 18.28     | Guide 28—General rules for a model third-party certification system for products |



SAI GLOBAL

This is a free 7 page sample. Access the full version online.

The remainder of this document  
is available for purchase online at

[www.saiglobal.com/shop](http://www.saiglobal.com/shop)

SAI Global also carries a wide range of publications from a wide variety of Standards Publishers:



SAI GLOBAL



Click on the logos to search the database online.