

Australian Standard™

**Lifting components for Grade T chain
slings**



This Australian Standard was prepared by Committee ME-025, Lifting Tackle. It was approved on behalf of the Council of Standards Australia on 2 March 2006. This Standard was published on 16 June 2006.

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Australian Standard™

Lifting components for Grade T chain slings

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PREFACE

This Standard was prepared by Standards Australia Committee ME-025, Lifting Tackle, to supersede AS 3758—1990.

In the preparation of this Standard, cognizance was taken of the following Standards:

- (a) BS EN 1677-1:2000 Components for slings. Safety. Forged steel components, Grade 8.
- (b) BS EN 1677-2:2000 Components for slings. Safety. Forged steel lifting hooks with latch, Grade 8.
- (c) BS EN 1677-3:2001 Components for slings. Safety. Forged steel self-locking hooks, Grade 8.
- (d) BS EN 1677-4:2000 Components for slings. Safety. Links, Grade 8.

Previously, quality grade was designated as T, 8, 80 or 800. International usage has focused on Grade 8 and, for the purposes of this Standard, Grade T or Grade 8 are the predominant description of quality grade.

The objective of this Standard is to provide requirements for lifting components for use in Grade T chain slings and ensure that product supplied meets its design intent. This Standard is for reference by manufacturers, suppliers, testers, users 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.

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STANDARDS AUSTRALIA

Australian Standard
Lifting components for Grade T chain slings

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for forged lifting components for use in chain sling assemblies with corresponding sizes of Grade T chain complying with AS 2321. The components include hooks with eyes, clevises and other joining devices, mechanical connecting devices, and any other terminal fittings used in a lifting system based on Grade T chain.

This Standard does not apply to welded components other than welded master links, welded multi-link assemblies, welded joining links nor does it apply to components subject to an existing Australian Standard.

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 A list of standards applicable to components used in lifting systems is given in Appendix D.

1.2 REFERENCED DOCUMENTS

The following documents are referenced in this Standard:

AS

- | | |
|--------|---|
| 1171 | Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures |
| 1442 | Carbon steels and carbon-manganese steels—Hot-rolled bars and semifinished products |
| 1444 | Wrought alloy steels—Standard, hardenability (H) series and hardened and tempered to designated mechanical properties |
| 2062 | Non-destructive testing—Penetrant testing of products and components |
| 2193 | Calibration and classification of force-measuring systems |
| 2318 | Swivels for hoists |
| 2321 | Short-link chain for lifting purposes |
| 3775 | Chain slings—Grade T |
| 3775.2 | Part 2: Care and use |
| 3998 | Non-destructive testing—Qualification and certification of personnel |

AS/NZS

- | | |
|--------|---|
| 1554 | Structural steel welding |
| 1554.4 | Part 4: Welding of steel structures subject to high levels of fatigue loading |