

AS/NZS 1866:1997 (R2020) Aluminium and aluminium alloys - Extruded rod, bar, solid and hollow shapes

Table of Contents

View on Information Provider website {{ linkText }}

Abbreviation AS/NZS 1866:1997 Valid from 04/09/1997

Information provider
Standards New Zealand
Author
Standards New Zealand, Standards Australia
Information type
New Zealand Standard
Format
PDF

Cited By

This resource is cited by 1 document (show Citations)

Description

This Standard specifies requirements for aluminium and aluminium alloy extruded rod, bar, solid and hollow shape products for general engineering purposes.

Chemical composition and mechanical properties are specified, and allowable tolerances on dimensions are included for rod, bar, solid shapes, and Class A, Class B, Class C and Class D hollow shapes. Examples illustrating the use of tolerance tables are included.

 $\label{eq:contact} \textbf{For assistance with locating previous versions, please contact the information provider.}$

Table of Contents View on Information Provider website {{ linkText }}

 $\label{lem:continuous} \textbf{For assistance with locating previous versions, please contact the information provider.}$

This resource is cited by:

AS/NZS 1866:1997 (R2020) Aluminium and aluminium alloys - Extruded rod, bar, solid and hollow shapes

This document is CITED BY:

AS/NZS 1866:1997 is cited by AS/NZS 3500.3:2018 Plumbing and drainage Part 3: Stormwater drainage



AS/NZS 1866:1997 (R2020) Aluminium and aluminium alloys - Extruded rod, bar, solid and hollow shapes

Show what documents this resource is CITED BY

Show what documents this resource CITES

Description

This Standard specifies requirements for aluminium and aluminium alloy extruded rod, bar, solid and hollow shape products for general engineering purposes.

Chemical composition and mechanical properties are specified, and allowable tolerances on dimensions are included for rod, bar, solid shapes, and Class A, Class B, Class C and Class D hollow shapes. Examples illustrating the use of tolerance tables are included.

View on Information Provider website

AS/NZS 1866:1997 (R2020) Aluminium and aluminium alloys - Extruded rod, bar, solid and hollow shapes

Description

This Standard specifies requirements for aluminium and aluminium alloy extruded rod, bar, solid and hollow shape products for general engineering purposes.

Chemical composition and mechanical properties are specified, and allowable tolerances on dimensions are included for rod, bar, solid shapes, and Class A, Class B, Class C and Class D hollow shapes. Examples illustrating the use of tolerance tables are included.

View on Information Provider website

This resource does not cite any other resources.

AS/NZS 1866:1997 (R2020) Aluminium and aluminium alloys - Extruded rod, bar, solid and hollow shapes

This resource does not CITE any other resources.



Table of Contents

Section 1 Scope And General

- 1.1 Scope
- 1.2 Referenced Documents
- 1.3 Definitions
- 1.4 Designation
- 1.5 Classification Of Hollow Extruded Shapes

- 1.6 Rounding Of Test Result Values
- 1.7 Marking
- 1.8 Traceability

Section 2 Manufacturing Requirements

- 2.1 Scope
- 2.2 Chemical Composition
- 2.3 Surface Finish
- 2.4 Freedom from Defects
- 2.5 Mechanical Properties
- 2.6 Manufacturing Tolerances

Section 3 Mechanical Testing Requirements

- 3.1 Scope
- 3.2 Sampling For Mechanical Testing
- 3.3 Location And Preparation Of Tensile Test Pieces
- 3.4 Tensile Test
- 3.5 Retesting.

Section 4 Manufacturing Tolerances

- 4.1 Scope
- 4.2 Diameter Tolerances For Extruded Machining Rod (Alloys 2011 And 6262 Only)
- 4.3 Distance-Across-Flats Tolerances For Extruded Machining Hexagonal Bar (Alloys 2011 And 6262 Only)
- 4.4 Diameter, Width And Depth Tolerances For Class A Hollow shapes
- 4.5 Wall Thickness Tolerances For Class A Hollow Shapes
- 4.6 Cross-Sectional Tolerances For Rod, Bar, Solid Shapes And Class B, C And D Hollow Shapes
- 4.7 Length Tolerances
- 4.8 Twist Tolerances

- 4.9 Straightness tolerances
- 4.10 Flatness (Flat Surface) Tolerances
- 4.11 Total Transverse Flatness Tolerances 4.12 Angularity Tolerances
- 4.13 Contour tolerances
- 4.14 Corner And Fillet Radii Tolerances
- 4.15 Squareness-Of-Cut-Ends tolerance

Section 5 Yacht Masts

- **5.1 Scope 5.2 Cross-Sectional Dimension Tolerances**
- **5.3 Twist Tolerances**

Appendices

A Purchasing Guidelines

B Typical Fabrication Characteristics And Application Data

