

Specification for

Wrought aluminium and aluminium alloys —

**For general engineering purposes
(Supplementary series) —**

**Aluminium alloy longitudinally welded
tube**

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Co-operating organizations

The Non-ferrous Metals Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

Aluminium Federation*	Institution of Mining and Metallurgy
Association of Bronze and Brass Founders	Institution of Production Engineers
Association of Consulting Engineers	Institution of Structural Engineers*
Board of Trade	Lead Development Association
British Bronze and Brass Ingot Manufacturers' Association	Light Metal Founders' Association
British Electrical and Allied Manufacturers' Association*	London Metal Exchange
British Lead Manufacturers' Association	Magnesium Industry Council
British Non-ferrous Metals Federation	Ministry of Defence, Army Department
British Non-ferrous Metals Research Association*	Ministry of Defence, Navy Department*
Copper Development Association	National Brassfoundry Association
Crown Agents for Oversea Governments and Administrations	Non-ferrous metal stockists*
Electric Cable Makers' Confederation	Post Office
High Conductivity Copper Association	Royal Institute of British Architects*
Institute of British Foundrymen	Society of British Aerospace Companies
Institute of Metals*	Society of Motor Manufacturers and Traders Ltd.*
Institution of Mechanical Engineers (Automobile Division)*	Tin Research Institute
	Zinc Development Association
	Individual manufacturers

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

ALARS (Association of Light Alloy Refiners and Smelters)	London Transport Board
British Aluminium Hollowware Manufacturers' Association	Ministry of Technology
Institute of Sheet Metal Engineering	National Association of Drop Forgers and Stampers
Institute of Welding	National Federation of Vehicle Trades
Lloyd's Register of Shipping	Rolled Thread Screw Association
	Small Rivet Association

This British Standard, having been approved by the Non-ferrous Metals Industry Standards Committee and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council on 15 December 1967

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The following BSI references relate to the work on this standard:
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Contents

	Page
Co-operating organizations	Inside front cover
Foreword	ii
Scope	1
1 General requirements	1
1.1 Definitions	1
1.2 Freedom from defects	1
1.3 Tolerances	1
1.4 Selection of test samples	1
1.5 Mechanical tests	1
1.6 Retests	2
1.7 Certificate of compliance	2
1.8 Inspection	2
1.9 Independent test	2
1.10 Facilities for testing	2
1.11 The rounding of numbers rule	3
2 Specific requirements	
Non-heat-treatable aluminium alloy, Material 5251	3
Appendix A Dimensions of tensile test pieces	5
Appendix B Details of the international alloy designations and chemical composition limits for wrought aluminium alloys system	5
Figure 1 — Position of weld for flattening test	2
Figure A.1 — Strip test piece cut from tube	5

Foreword

This standard makes reference to the following British Standards:

BS 18, *Tensile testing of metals*.

BS 18-1, *Non-ferrous metals*.

BS 1499, *Sampling non-ferrous metals*.

BS 1728, *Methods for the analysis of aluminium and aluminium alloys*.

BS 3660, *Glossary of terms used in the wrought aluminium industry*.

This British Standard specification for welded tube is one of a series of supplementary specifications for wrought aluminium and aluminium alloys, the preparation of which has been authorized by the Non-Ferrous Metals Industry Standards Committee. In reflection of the decision of the Government that British industry should effect a complete change to the metric system by 1971, this specification is expressed in metric terms. For the convenience of users however during the interregnum, in the case of *dimensions* and *weights* the British units which are correspondingly applicable (the British units are *not* equivalents to the metric units) are shown in parentheses whilst in the instance of *properties*, tonf/in² units have been cited which are actual equivalents.

Aluminium and aluminium alloy materials intended for general engineering use are the subject of specification in BS 1470 to BS 1475, whilst those intended for specialized use or which are of limited interest, are published in the supplementary engineering series. The latter series will be kept under frequent review, and if changed circumstances appear to warrant such, from time to time particular material specifications may be transferred from the supplementary to the general engineering series.

As a major step towards alignment of aluminium and aluminium alloy compositions on an international basis, a substantial number of countries have agreed to adopt a 4-digit classification for alloy composition designation. This system is administered by the Aluminium Association Inc., who issue the "Registration Record of International Alloy Designations and Chemical Composition Limits for Wrought Aluminium Alloys.

By amendment, it has been decided to introduce this system into the British Standards concerned with these types of material in place of the material designations formerly used. The details of the system are given in Appendix B. The temper designations and associated mechanical property requirements remain unaltered for the present and therefore may not necessarily align precisely with those in the standards of other countries.

The materials designated NJ3 and NJ5 have been deleted from the standard. Material NJ4 has been replaced by 5251 (nearest ISO equivalent Al Mg 2), resulting in some minor compositional changes.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.