

Specification for

**Wire for solid,  
cold-forged rivets  
of 99.5 % aluminium —**

**(Not exceeding 10 mm diameter)**

UDC 629.7:669.71-426:621.884

Confirmed  
January 2011

# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Aerospace Standards Committee (ACE/-) to Technical Committee ACE/24 upon which the following bodies were represented:

Aluminium Federation  
 Aluminium Stockholders' Association  
 Association of Light Alloy Refiners Limited  
 BNF Metals Technology Centre  
 British Forging Industry Association  
 British Industrial Fasteners Federation  
 British Investment Casting Trade Association  
 Institute of British Foundrymen  
 Light Metal Founders' Association  
 Magnesium Industry Council  
 Ministry of Defence  
 Society of British Aerospace Companies Limited

This British Standard, having been prepared under the direction of the Aerospace Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 December 1985

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The following BSI references relate to the work on this standard:  
 Committee reference ACE/24  
 Draft for comment 81/77624 DC

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## Amendments issued since publication

Amd. No.	Date of issue	Comments

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NOTE 1 The chemical composition of this material complies with that registered as International Designation 1050A.

NOTE 2 The title of the publication referred to in this standard is listed on the inside back cover.

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### **Summary of pages**

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, an inside back cover 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.

## 1 Inspection and testing procedure

This British Standard shall be used in conjunction with the relevant sections of the latest issue of BS L 100.

## 2 Quality of material

The material shall be made from aluminium of the chemical composition specified in clause 3, with or without approved scrap at the discretion of the manufacturer.

## 3 Chemical composition

The chemical composition of the material shall be:

Element	%	
	min.	max.
Silicon	—	0.25
Iron	—	0.40
Copper	—	0.05
Manganese	—	0.05
Magnesium	—	0.05
Zinc	—	0.07
Titanium	—	0.05
Others: each	—	0.03
<b>Aluminium<sup>a</sup></b>	<b>99.50</b>	—

<sup>a</sup>The aluminium content is the difference between 100.00 % and the sum of all the other metallic elements present in amounts of 0.01 % or more each, expressed to the second decimal place before determining the sum.

## 4 Condition

The wire shall be supplied as drawn.

## 5 Heat treatment

None.

## 6 Mechanical properties

**6.1 Tensile test.** The tensile strength of test pieces, selected and prepared in accordance with the relevant requirements of BS L 100, shall be not less than 110 MPa.

**6.2 Torsion test.** The torsion test shall be carried out on a sample in the condition as delivered.

## 7 Identification colour

The identification colour for the wire shall be black.



## Publication referred to

BS L 100, *Procedure for inspection and testing of wrought aluminium and aluminium alloys.*

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