

TECHNICAL SPECIFICATION	TS260™	ISSUE 5
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Metallic Materials List of Alternative Material Specifications and Standards Only Authorised for Use on Standard Parts		

NOTE: The issue status of this document remains unchanged as there have been no changes to the technical content.

SAE INDUSTRY TECHNOLOGIES CONSORTIA AEROSPACE STANDARDS AND PART QUALIFICATION PROGRAM

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TECHNICAL SPECIFICATION

No. TS260

METALLIC MATERIALS

LIST OF ALTERNATIVE MATERIAL SPECIFICATIONS & STANDARDS ONLY AUTHORISED FOR USE ON ADS STANDARD PARTS

RATIONALE

Fifth issue of specification.

Revised to amend status of referenced and alternative specifications, to delete entry for BS HR 251 following its re-instatement as current by BSI, add alternatives for BS HR 650 and to delete Appendix A and Appendix B.

For full details of changes, refer to supplementary ADS Amendment Record document TS260-AR.

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ADS Technical Specification No. TS260

METALLIC MATERIALS

LIST OF ALTERNATIVE MATERIAL SPECIFICATIONS & STANDARDS ONLY AUTHORISED FOR USE ON ADS STANDARD PARTS

CONTENTS

Title Page

Foreword

SECTIONS

1. Scope
2. Referenced Documents
3. Introduction
4. Index of Material Specifications
5. Tables of Referenced Materials & Alternatives

Table 1	Aluminium Alloys
Table 2	Non-Corrosion Resisting Steels
Table 3	Corrosion Resisting Steels
Table 4	Heat Resisting Alloys
Table 5	Copper Alloys

Prepared by the Technical Standards Committee
ADS Group Limited
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1. **SCOPE**

This document provides a list of authorised alternative metallic material specifications and standards for withdrawn, obsolescent or partially superseded British Standard (BS) Aerospace and General Engineering and MoD Directorate of Technical Development (DTD) series material specifications referenced on ADS Standard Parts drawings in the AGS and AS series.

2. **REFERENCED DOCUMENTS**

2.1 **Informative References**

The following documents, in whole or in part, are informatively referenced in this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

TS95	ADS Recommendations for Metallic Material Specifications & Standards to be used for New Designs.
TS96	ADS Technical Specification for Similar Metallic Material Specifications & Standards.
EN 515	Aluminium and Aluminium Alloys — Wrought products — Temper Designations.
EN 1706	Aluminium and Aluminium Alloys - Castings – Chemical Composition and Mechanical Properties.
ESDU 00932	Metallic Materials Data Handbook.

2.2 **Listed Publication bodies**

EN	European Committee for Standardization (CEN). Available from National Standards Bodies e.g. British Standards Institution (BSI).
ESDU	IHS ESDU.
TS	ADS Group Limited.

3. **INTRODUCTION**

- 3.1 In view of the difficulty in obtaining material supplies for the manufacture of ADS Standard Parts in the AGS and AS series, the ADS Metallic Materials Special Interest Group (MMSIG) have approved the alternatives (with the applicable restrictions where stated) listed in this document.
- 3.2 The authorised alternatives listed in the Tables are only applicable to ADS Standard Parts and shall not be regarded as general alternatives for applications other than ADS Standard Parts.
- 3.3 Within the tables, only the basic specification of the referenced and alternative is specified, however, any edition or revision is applicable.
- 3.4 Reference to any EN material standard means the National implementation of that standard e.g. BS EN.

- 3.5 Reference to any prEN material standard means an ASD-STAN Prestandard.
- 3.6 For other applications, reference should be made to TS95 and TS96.
- 3.7 Design properties for some of the materials included in this document are available in ESDU 00932.

3.8 The following symbols and abbreviation are used in the Tables:

a	:	Thickness
D	:	Diameter
D_e	:	Heat treatment ruling section
f_t	:	Tensile strength
t_2	:	0.2% tensile proof stress
PCGC	:	Peripheral Coarse Grain Control

4. INDEX OF MATERIAL SPECIFICATIONS

The following withdrawn, obsolescent and partially superseded material specifications are referenced on AGS / AS drawings:

MATERIAL SPECIFICATION REFERENCED	FORM	TABLE	MATERIAL SPECIFICATION REFERENCED	FORM	TABLE
BS 265	Sheet, strip, foil	5	DTD 124	Sheet, strip	2
BS 885	Tube	5	DTD 130	Bar, extrusions	1
BS 889	Sheet, strip, foil	5	DTD 130	Forgings	1
BS 920	Castings	5	DTD 133	Castings	1
BS 932	Castings	5	DTD 166	Sheet, strip	3
BS 2870	Sheet, strip, foil	5	DTD 171	Sheet, strip	3
BS 2872	Forgings	5	DTD 187	Strip	2
			DTD 188	Bar	2
BS HR 650	Bar, wire	4	DTD 188	Forgings	2
			DTD 213	Sheet, strip	1
BS L 1	Bar, extrusions	1	DTD 253	Tube	5
BS L 3	Sheet, strip	1	DTD 298	Castings	1
BS L 38	Sheet, strip	1	DTD 304	Castings	1
BS L 39	Bar, extrusions	1	DTD 310	Tube	1
BS L 62	Tube	1	DTD 323	Tube	5
BS L 64	Bar, extrusions	1	DTD 364	Bar, extrusions	1
BS L 65	Bar, extrusions	1	DTD 364	Forgings	1
BS L 70	Sheet, strip	1	DTD 390	Sheet, strip	1
BS L 102	Bar, extrusions	1	DTD 423	Bar, extrusions	1
BS L 111	Bar, extrusions	1	DTD 423	Forgings	1
			DTD 603	Sheet, strip	1
BS S 2	Bar	2	DTD 610	Sheet, strip	1
BS S 3	Sheet, strip	2	DTD 5006	Wire	3
BS S 6	Bar	2	DTD 5014	Bar, extrusions	1
BS S 6	Forgings	2	DTD 5016	Tube	3
BS S 11	Bar	2	DTD 5046	Sheet, strip	3
BS S 11	Forgings	2	DTD 5066	Bar	3
BS S 94	Bar	2	DTD 5066	Forgings	3
BS S 94	Forgings	2	DTD 5124	Bar for fasteners	1
BS S 95	Bar	2	DTD 5638	Bar for fasteners	4
BS S 95	Forgings	2	DTD 5639	Bar for fasteners	4
BS S 96	Bar	2			
BS S 96	Forgings	2			
BS S 110	Bar	3			
BS S 110	Forgings	3			
BS S 114	Bar	2			
BS S 114	Forgings	2			
BS S 511	Sheet, strip	2			
BS S 520	Sheet, strip	3			
BS S 521	Sheet, strip	3			
BS T 4	Tube	1			
BS T 35	Tube	2			
BS T 50	Tube	2			