

**Ministry of Defence
Defence Procurement Agency, ADRP2
Abbey Wood
Bristol
BS34 8JH**

OBSOLESCENCE NOTICE

All DTD specifications were declared obsolescent from 1st April 1999. All DTD 900 series approvals also lapsed at that time. The standards will no longer be updated but will be retained as obsolescent documents to provide for the servicing of existing equipment.

Further Guidance

The aim in declaring the specifications obsolescent is to recognise that the documents are not being updated and thus should be used with care by both purchaser and supplier. For example, a specification could contain valid technical information but may also contain type approval clauses that contradict procurement policy and/or use materials that do not comply with environmental legislation. The obsolescent specification can still be used as a basis for a purchase provided that the supplier and purchaser agree suitable changes to the specification within the purchase order/contract.

For the DTD 900 system, each specification has provided an MoD approved material and process. For these items, the declaration of obsolescence will constitute the termination of both the extant MoD approval and the continuing MoD assessment that had underpinned those approvals. Again, the technical content of the document remains valid and can be used by both purchaser and supplier as a basis for a contract but an acceptable (to the parties) approval/assessment procedure would be required.

**Aerospace Material Specification
BARS AND EXTRUDED SECTIONS
OF MAGNESIUM-1½% MANGANESE ALLOY**

NOTE 1. This specification is one of a series issued by the Procurement Executive, Ministry of Defence to meet a requirement not covered by an existing British Standard for aerospace material.

NOTE 2. Only simple bending or shaping operations can be made on this material without heating. Most forming operations can be carried out at a temperature of approximately 300°C, but the material must not be heated above 450°C.

NOTE 3. Other forms of material of this composition are covered by the following D.T.D. specifications :

D.T.D. 118C Sheet and strip
D.T.D. 737A Tube

1. INSPECTION AND TESTING PROCEDURE

This specification shall be used in conjunction with Sections 1 and 4 of British Standard L.500.

2. QUALITY OF MATERIAL

The material shall be made from magnesium and alloying constituents, with or without approved scrap, at the discretion of the manufacturer.

3. CHEMICAL COMPOSITION

The chemical composition of the material shall be :

Element	Per cent	
	min.	max.
Manganese	1.0	2.0
*Zinc	—	0.03
*Calcium	—	0.02
*Copper	—	0.02
*Aluminium	—	0.05
*Silicon	—	0.02
*Iron	—	0.03
*Nickel	—	0.005
Magnesium	The remainder	

*Subject to the discretion of the Inspecting Authority, determination of these elements need be made on a small proportion only of the samples analysed.

4. CONDITION

The material shall be supplied as extruded and straightened.

5. HEAT TREATMENT

None.

6. MECHANICAL PROPERTIES

Tensile test. The mechanical properties obtained from test pieces selected and prepared in accordance with the relevant requirements of British Standard L.500 shall be not less than the following values:

0.2% proof stress	Tensile strength	Elongation
MPa	MPa	%
130	230	4

NOTE. Conversion factors : $1\text{MPa} = 1\text{N/mm}^2 = 0.102\text{ kgf/mm}^2 = 0.065\text{ tonf/in}^2$. Information on SI units is given in BS 3763 'The International System of units (SI);' see also BS 350 'Conversion factors and tables.'

Approved for issue,

E. W. RUSSELL,

Director of Research Materials 2.

© Crown copyright 1973

Printed in England by Willsons Printers (Leicester) Ltd.
and published by Her Majesty's Stationery Office

5p net

Dd. 503683 K11 7/73 WPL455

SBN 11 470727 8