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.

(Superseding Specification D. T. D. 200A) February, 1981

Aerospace Material Specification

NICKEL-COPPER ALLOY COLD DRAWN AND STRESS RELIEVED BAR AND WIRE

NOTE: 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

1. Inspection and Testing Procedure

This specification shall be used in conjunction with the following relevant sections of British Standard HR 100 (latest issue) except where this specification overrides.

Bars for machining and extruded sections

Wire

Bar and wire intended for the manufacture of fasteners

Sections 1 & 2
Sections 1 & 7
Sections 1 & 9

2. Manufacture

The material shall be manufactured by an electric melting process.

3. Chemical Composition

The alloy shall contain:

Element		%	
	Min	Max	
Carbon	_	0.3	
Silicon	-	0.5	
Manganese	-	2.0	
Sulphur Aluminium	-	0.02	
Aluminium	-	0.5	
Cobalt	-	2.0	
Copper	28.0	34.0	
Iron	-	2.5	
Nickel + Cobalt	63.0	_	

4. Condition

Unless otherwise agreed, the material shall be supplied in the cold drawn and stress relieved condition.

5. Heat Treatment

The material shall be stress relieved.

6. Hardness

Ten per cent of the bars shall be hardness tested.

The Brinell or equivalent hardness of material heat treated in accordance with clause 5 shall be greater than 200 HB.

7. Tensile Test

The mechanical properties obtained from test pieces selected, prepared and tested in accordance with the relevant requirements of HR 100 shall be as follows:

Tensile test at room temperature:

0.2% Proof Stress	Tensile Strength	Elongation
MPa	MPa	%
Min	Min	Min
470	695	14

Approved for issue,

D. K. THOMAS

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