COMMONWEALTH AIRCRAFT CORPORATION PTY. LTD.

Date - 31/8/45 Superseding - Change "C" Dated - 26th April, 1945. Specification No CA.219D.*

Specification for

ALUMINIUM ALLOY BARS, EXTRUDED SECTIONS, AND FORGINGS,

- (1) This specification shall be considered to be satisfied in all respects by the following, except that tolerances shall be in accordance with specification CA.702 unless otherwise specified on the drawing or purchase order.
 - (a) : For Bars and Billets for Forging.

British Standard Aircraft)
Specification	6L.1 Section 2	For
+ Australian Emergency		POP
Standard Specification	(E)D.641-1941	CA.219-2
	Section 2	

(b) For Bars for Machining and Extruded Sections.

(E)D.641-1941 Section 3.	
) For
6L.1 Section 4 (E)D.641-1941 Section 4 QQ-A-367b-1	CA.219-3
	Section 3. QQ-A-351b. 6L.1 Section 4 (E)D.641-1941 Section 4

+ Australian Emergency Standard Specification (E)D.641-1941 is an endorsement without amendment of British Standard Aircraft Specification B.S. 6L.1

(2) MINIMUM PHYSICAL PROPERTY REQUIREMENTS.

Where material is bought to one of the specifications listed in Section (1), it shall be tested in accordance wi the requirements of such specification. However, for designarposes, and acceptance of forgings and other material no heat treated by the manufacturer of the material the followinimum physical properties will be acceptable for CA. 219-

PROPERTY	BARS FOR MACHINING	EXTRUDED SECTIONS	FORGING
Ult. Tensile Stress lb./sq.in. min.	55,000	50,000	55,000
0.2% Proof Stress lb./sq.in. min.	32,000	32,000	30,000
Elongation on 2 ins. or 4/A.	12 # 12 # 11 # 12 # 1	12	15 (6)

(3) SIMILAR SPECIFICATIONS.

The following specifications (alloy, type or schedule numbers) are listed for information only and shall not be a strued as acceptable alternatives unless all the requirement of the above specifications are met and/or the numbers listare shown on the relevant drawings.

A.A.17S; Alcoa 17S; S.A.E. 26; U.S. Navy 46A4g for Bars and Extruded Shapes; U.S. Navy 46A7d Grade 1 for Forgings; A.S.T.M. B89-42T; P.W.A.132; B.S.477 for Bars and Extruded Shapes; B.S.532 for Forgings; B.S. 2L.39 for Bars and Forgi S.A.A. (E)D.642 for Bars and Forgings.

NOTE: This specification is inactive for future de Material as follows to be used in lieu.

For Bars and Extruded Shapes:

A.A. 24S or Alcoa 24S aluminium alloy to speci:
CA. 213.

For Forgings:
A.A.268 or Alcoa 148 aluminium alloy to specii CA.212.

Materials Engi