422 COLLINS ST.

MELBOURNE C.

FEBRUARY, 1946

BRITISH STANDARDS INSTITUTION INCORPORATED BY ROYAL CHARTER

SECTIONAL LIST OF BRITISH STANDARDS

AIRCRAFT MATERIALS AND COMPONENTS

PRICE 1s. NET PER COPY UNLESS OTHERWISE STATED

Add. signifies that an amendment is issued with the Standard.

The following are the additions or alterations to the List since August, 1945:-

New standards issued: None. Revised standards issued: 4 S. 1.

Standards withdrawn for revision: None.

Amendment slips issued for: L. 45, 2 T. 50, 2 T. 45, 3 T. 26, 3 T. 2, 3 T. 1, 3 S. 3, 3 S. 21, S. 84.

Standards cancelled: L. 46.

B.S. A. BOLTS, ETC.

- 6 A 1. Hexagonal headed bolts (low tensile steel).

- A 1. Hexagonal headed bolts (low tensile steel). Add.
 A 4. Test pieces (tensile, bend and notched bar).
 A 14. Hexagonal brass nuts. Add.
 A 15. Hexagonal headed bolts (high tensile steel). Add.
 A 16. Hexagonal steel nuts (ordinary, thin, slotted and castle). Add.
 A 17. Machined hexagonal headed bolts (Aluminium alloy). Add.
 A 18. Machined hexagonal nuts (aluminium alloy).
 A 19. Serrations and gauges for serrations 2/-.
 A 20. Spline shafts and holes.

B. BRASS, COPPER, ETC.

- B 8. Phosphor bronze castings for bearings. (Includes solid and cored sticks). Add.
 B 11. Brass bars suitable to be brazed or silver soldered. Add.
 B 21. White metal (88/8/4) ingots (suitable for bearings).
 B 22. White metal (92/4/4) ingots (suitable for bearings).

D. DOPE AND INGREDIENTS.

- Methyl ethyl ketone.
 Amyl acetate.
 Butyl acetate.
 Castor oil (for nitro dope coverings)
 Benzyl alcohol.
 Nitro-cellulose syrup. Add.
 Alcohol.
 Benzol.
 Triacetin.
 Triphenyl phosphate.
 Distillation apparatus.
 Butyl alcohol.
 Acetone.
- D. DOPE AND INGRE

 3 D 1. Methyl ethyl ketone.
 3 D 3. Amyl acetate.
 3 D 4. Butyl acetate.
 3 D 5. Castor oil (for nitro dope of the property)
 2 D 8. Nitro-cellulose syrup. Add.
 3 D 9. Alcohol.
 3 D 10. Benzol.
 3 D 10. Benzol.
 2 D 11. Triacetin.
 3 D 12. Triphenyl phosphate.
 3 D 15. Distillation apparatus.
 2 D 17. Butyl alcohol.
 3 D 22. Acetone.
 D 26. Yellow ochre.
 D 26. Yellow ochre.
 2 D 27. Zinc oxide. Add.
 2 D 29. Identification red. Add.
 2 D 29. Identification red. Add.
 2 D 30. Carbon black. Add.
 2 D 31. Ultramarine blue. Add.
 2 D 32. Aluminium powder.
 D 34. Ethylene glycol.

B.S.

- 2 D 50. Cellulose acetate. Add.2 D 101. Properties of aeroplane doping scheme

E. ELECTRICAL

- 4 E 3. Low tension flexible electric cords and cables. Add.
 2 E 9. Sparking plugs and sparking plug holes, taps and washers.
 3 E 12. Electric incandescent lamps for aircraft, other than landing lamps. Add.
 E 18. Electric incandescent lamps for aircraft, landing lamps. Add.

F. FABRIC, ETC.

- 6 F 1. 4 oz. linen fabric and tape. Add. 6 F 7. Rubber hose for use with aviation fuel.
- F 1. 4 oz. linen fabric and tape. Add.
 F 7. Rubber hose for use with aviation fuel. Add.
 F 8. Mercerised cotton aeroplane fabric (Grade 1).
 F 15. Hemp lines and ropes for kite balloons.
 F 16. Rubber shock absorber cord.
 F 30. Cotton breaking cord for supplies droppers.
 F 31. Hemp cordage for supplies droppers. Add.
 F 32. Hemp cordage for supplies droppers.
 F 33. Flexible cotton ropes.
 F 34. Linen Sewing Thread.
 F 35. Flax cordage.
 F 37. 18 oz. cotton canvas.
 F 38. 18 oz. flax canvas.
 F 39. Rubber-proofed fabric.
 F 45. Rubber-proofed fabric.
 F 45. Rubber-proofed fabric.
 F 47. Cotton tapes.
 F 90. Eyeleted fuselage webbing.
 F 50. Eyeleted fuselage webbing.
 F 51. Light elastic cord for parachutes, w/ instruments and aerial suspensions.
 F 52. Linen reinforcement webbing.
 F 53. Parachute main harness webbing.
 F 54. Flax sewing cord for parachute harness.
 F 55. Cotton duck (dyed) for cases and travelling bags for parachutes.
 F 56. Transparent sheets for observation panels.
 F 57. Scoured cotton fabrics.
- 4 F 15. 5 F 16. 2 F 30. 4 F 32. 3 F 33. 3 F 34. 4 F 35. 2 F 37. 2 F 38. 3 F 47. 5 F 49. 3 F 50. 3 F 51.

- - F 52. F 53. F 54. 2 F 55.

K. CAST IRON.

- Cast iron piston ring pots. Add. Iron castings for cylinders (water-cooled and air-cooled), pistons and valve guides.

LIST OF BRITISH STANDARF

	LIST OF BRITISH STANDARDS (continued)						
E	3.S.		L. ALUMINIUM AND LIGHT ALLOYS.	B.S.			
6	L	. 1.	Aluminium alloy bars, extruded sections and forgings (not greater than 3 in. diameter or minor sectional dimension). Add.	S 82. S 84. S 85. S 90.	Nickel chromium case-hardening steel. Low carbon steel sheets and strips (suitabl for welding). *Add.* Non corrodible steel sheets. High tensile 5 per cent nickel case-harder		
5 2 3	I	4. 5.	Aluminium alloy sheets and coils. Add. Aluminium sheets (hard). Add. Aluminium-zine-copper alloy castings. 12 per cent copper-aluminium alloy castings.	S 100.	ing steel. Testing procedure applicable to aircrasteels.		
2224	I	11. 16. 17. 24. 25.	7/1 aluminium alloy castings. Aluminium sheets (half hard). Add. Aluminium sheets (soft). Add. 'Y' aluminium alloy castings. Aluminium alloy forgings (including	2 S P 1. 3 S P 3.	Fork joints (low tensile type).		
2	L	30.	pistons and cylinder heads). 98 per cent aluminium notched bars and ingots.	SP 6. 2 SP 7.	Steel pins. Add. Turnbuckles. Fork joints (high tensile type). Turnbuckles (tension rod type). Add.		
2	L	33. 34. 35.	ingots for remelting. Silicon aluminium alloy castings. Add. 99 per cent aluminium bars and sections. 'Y' aluminium alloy castings (heat		T. TUBES.		
2 2 2	I	36. 37. 38. 39.	(greater than 3 in. diameter or width	3 T 1. 3 T 2. 5 T 4. 5 T 7. 4 T 9.	35-ton steel tubes. Add. 85-ton nickel chromium steel tubes. Add. Aluminium alloy tubes. Add. Seamless copper tubes for oil, petro, ga starters and general purposes. Aluminium tubes.		
2	I	40.	across flats or minor sectional dimension). Add. Aluminium alloy bars, extruded sections and forgings (not greater than 3 in. dia-	3 T 26. 2 T 35.	20-ton steel tubes (suitable for welding) Add. 35-ton steel tubes (suitable for welding) Add.		
2	I	42.	meter or minor sectional dimension). Add.	2 T 45.	45-ton steel tubes (suitable for welding) Add.		
		44.	pistons and cylinder heads). Soft aluminium alloy extruded bars and sections (not greater than 3 in. diameter	4 T 47.	Brass tubes for honeycomb type radiators.		
	I	45.	or minor sectional dimension). Add.	2 T 50. 3 T 51. 2 T 52.	50-ton steel tubes. Add. High pressure seamless copper tubes. Hard drawn phosphor-bronze phosphorus deoxidised bronze tubes.		
					V. TIMBER, GLUES, ETC.		
			S. STEELS.	4 V 2. 6 V 3. 3 V 4. 3 V 5. 4 V 7.	Casein cement. High strength plywood for aircraft. Add Ash. Add. Walnut (for use in airscrews). Add.		
4	S	1.	35-45 ton carbon steel bars for machining for aircraft purposes.	3 V 5. 4 V 7. V 8. 6 V 10.	Mahogany (for use in airscrews). Add. Rock elm. Add. Liquid and Jelly Gelatine Glues.		
3	S		55-ton alloy steel bars. Add. Mild steel sheets and strips (suitable for welding). Add. '40' carbon steel (normalised).	5 V 11.	Dry Gelatine Glue.		
4 2 3	SSS	11. 14.	55-65 ton nickel chromium steel. Carbon case-hardening steel. 3 per cent nickel case-hardening steel. Add.	3 W 1.	W. WIRES, WIRE ROPES, ETC. High tensile steel wire.		
3 3	SS	20. 21.	Add. Tinned steel sheets. '20' carbon steel (suitable for welding). Add.	5 W 2.	Flexible steel wire rope. Add. Streamline wires. Flexible steel wire rope for kite balloon		
3 2	SSS		Bright steel bars for keys Air-hardening nickel-chrome steel. High chromium steel (non-corroding)—	6 W 8.	cables. Add. Tie rods (swaged).		
	S	62.	35 tons. High chromium steel (non-corroding)— 46 tons.		X. PAINTS AND VARNISHES.		
	S	65. 67.	65-ton nickel chrome steel. 5 per cent nickel case-hardening steel.		Oil and petrol resisting battleship grey		
	SSS	68. 69. 70.	Add.	3 X 4. 3 X 6. 3 X 7.	White dope resisting paint. Varnish for external woodwork. Varnish for internal woodwork,		
2	SSSS	71. 76. 77. 79.	3) per cent nickel steel. 55 carbon steel (normalised). 40 carbon steel (normalised). 40 carbon steel (hardened and tempered). 55 carbon steel (hardened and tempered). 55 carbon steel (hardened and tempered).	3 X 4. 3 X 6. 3 X 7. 2 X 8. 3 X 9. 2 X 11. 2 X 12. 2 X 14. 2 X 17.	Undercoating propeller varnish. Bituminous paint. Transparent woodfiller for propellers. Finishing propeller varnish. Priming varnish.		
2		80.	High chromium steel (non-corroding)— 55 tons. 65 to 75 ton nickel chromium steel. Add.	2 X 17. X 18. X 19.	Seaplane varnish. Add. Shellac varnish. Acid resisting paint.		

LIST OF BRITISH STANDARDS (continued)

The following British Standards relating to Aircraft Materials and Components are also available

	from the In		
B.S.		B.S.	
	Standard of reference for dope and protective covering. 2 Temporarily out of print).	491—1933.	Nomenclature of timber for aircraft purposes. (Including sources of supply and application to aircraft). 2
	Airscrew hubs and their fixings— 1931. Airscrew hubs. 2	563—1937.	Land aerodrome and airway lighting 2/ (Temporarily out of print).
87 (part 2)		720—1937.	Calibration of carburettor jets for petrol engines (all types) (for flows not exceeding 2,000 ml. per minute). 2/
185—1940.	Glossary of aeronautical terms (Add. November, 1940, November, 1943 and October, 1944). 7/6.		
1 T 1		7	7

In the case of publications marked "Out of print," a limited number of copies are held available for loan purposes and a copy may be borrowed if desired.

- D.T.D. (Directorate of Technical Development) Specifications are not issued by the British Standards Institution; application for these should be addressed to the Director of Publications, H. M. Stationery Office, York House, Kingsway, London, W.C. 2.

A.S. (Aircraft General) Standards can be obtained, by application in writing, from the Ministry of Aircraft Production, R.T.P. 13c, Harrogate, Yorkshire.							
	ISSUES OF GEN	ERAL	INTEREST				
): 1944): 1935	Application of Statistical Methods to		(mostly in class 6, Applied Science) are available in draft form. Particulars may be obtained on application.				
	Industrial Standardisation and Quality Control. By Dr. E. F. Pearson (under revision).	1008 : 1942	Quality Control and Control Chart Method of Analysing Data. 3/6.				
OR: 1942	Quality Control Charts. 3/6.	1100 —	Office Aid to the Factory, 1100 Part 1: 1943. Principles of Pro- duction Control. 6d.				
o — .	Universal Decimal Classification:		1100 Part 2: 1944. Production Con-				
	1000 Vol. 1 Pt. 1:1943. General introduction, Auxiliary Tables, Class 0 Generalities. 7/6.		trol in the Small Factory. 2/ 1100 Part 3: 1945. Application of Production Control. 2/6. 1100 Part 4: 1944. Pay Roll Methods.				
	1000 Vol. 2 Pt. 1: 1943. Classes, 50 General works on pure science, 51 Mathematics, 52 Astronomy, Geodesy, and 53 Physics. 101		2/ 1100 Part 5: 1944. Stock Control and Store Keeping. 2/ 1100 Part 9: 1944. Drawing Office				
	1000 Vol. 2 Pt. 2: 1943. Class 54 Chemistry. 10/		Organisation. 2/ 1100 Part 10: 1943. Office Organisation and Practice. 2/6.				
	1000 Vol. 2 Pt. 3: 1943. Classes, 55 Geology, Geophysics, 56 Palae- ontology, 58 Botany, 59 Zoology.		NOTE. Other parts to this series not yet issued.				
	10/	1219 : 1945	Printers' and Authors' Proof Correc-				
	In addition to the above Parts of B.S. 1000, several sections of the Universal Decimal Classification	1219C : 1945	Table of Symbols for Printers' and Authors' Proof Corrections. 3d.				

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Cinematography and Photography	Iron and Steel Mechanical Engineering	F
Coal, Coke and Colliery Requisites	Nomenclature, Abbreviations and Symbols	S
Dairying	Non-Ferrous Metals	ť

Packaging and Containers
Paints, Varnishes and Paint
Materials
Paper and Stationery
Personal Safety Equipment
Public Works and Road
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