

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

## **OBSOLESCENCE NOTICE**

All DTD specifications were declared obsolescent from 1<sup>st</sup> 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 Materials Specification**  
**APPROVAL PROCEDURE FOR PROPRIETARY MATERIALS**  
**AND PROCESSES**

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**1. Scope**

This specification describes the procedure governing the approval of proprietary materials and processes. It also includes Appendices listing all materials and processes approved under its terms together with the name and address of the manufacturer or proprietor, the trade name of the material or process, if any, and the approval serial number.

The terms “proprietary material” and “proprietary process” for the purpose of this specification are applicable to materials or processes not covered by a BS aerospace, DTD or other specification approved by the procurement Executive, Ministry of Defence.

As approval under this specification covers proprietary materials and processes, details of which may be divulged in confidence to the Design Authority and/or Procurement Executive, Ministry of Defence, no specifications for the individual items are available and enquiries should be addressed to the manufacturer or proprietor concerned.

**2. Procedure to be followed in seeking approval***(i) Action to be taken by the Design Authority*

In order to obtain approval of a proprietary material or proprietary process for use in the construction, operation or repair of aerospace equipment, the Design Authority shall, with the agreement of the manufacturer or proprietor, apply to the Head of Materials and Structures Department, Royal Aerospace Establishment (RAE), Farnborough, Hants, GU14 6TD giving the following information:

- (a)* The name of the material or process;
- (b)* Evidence of the need of the material in Grade A or other critical parts;
- (c)* Evidence for the need for the use of the process, with details of any effects which cannot be readily assessed by inspection either after processing or after delivery (eg effects on fatigue life);
- (d)* Details of tests that demonstrate the properties and utility of the material or process.

*(ii) Action to be taken by the manufacturer or proprietor*

If an Agreed Firm's Schedule (AFS) for the material or process is being prepared or already exists, Head of Materials and Structures Department, RAE shall be informed. Otherwise full details of a scheme for the routine inspectional control of the material or process shall be submitted to the Head of Materials and Structures Department, RAE. These shall include *(i)* formulation and tests necessary to ensure that subsequent supplies or results will be of the same standard of quality as that for which approval is sought and *(ii)* a recommended system of control to be operated by an approved inspection organisation. Information regarding formulation and processing will be treated as confidential.

**3. Approval***(i) Approval is contingent upon:*

- (a)* Satisfactory results having been obtained by the Design Authority (see Clause 2.(i) *(d)*);
- (b)* The acceptance by Head of Materials and Structures, RAE, Farnborough, of the proposed schedule for routine inspectional control (see Clause 2.(ii));
- (c)* The approval of an appropriate inspection organisation of the quality assurance system of the manufacturer of the proprietary material or process.
- (d)* The restriction or use of the material or process to those applications defined under ‘Extent of Approval’ in Appendices I, II or III of this specification.

It should also be noted that an Agreed Firms Schedule (AFS) alone is not a substitute for DTD 900 approval Materials and processes covered only by an AFS must not be used for Grade A parts, nor in circumstances where prior approval is required by the provisions of Defence Standard 00-970 or other Design Document.

*(ii) The letter of approval will specify:*

- (a)* The extent of the approval;
- (b)* An approval serial number, eg DTD 900/1234. This approval serial number must be quoted on all relevant drawings, contracts, release notes, instructions for use and other documents wherein the material or process is specified;
- (c)* The number of the relevant AFS.

*(iii) Formal approval will be followed by the inclusion of the relevant details in Appendices I, II or III of this specification.*

*(iv)* Initial approval will be valid for five years and will be renewed subject to the design Authority supplying proof of a continued requirement three months prior to the end of the approval period.

*(v)* The prior agreement of the Head of Materials and Structures, RAE, Farnborough must be obtained before an approval may be transferred to another firm.

#### 4. Inspection

- (i) Each cast, batch or lot as defined in the Test Schedule of a Material for use in a Grade A or other critical part is to be inspected to the requirements of the Test Schedule.
- (ii) All materials and parts treated by a process approved under this specification shall be inspected to the requirements of the appropriate Test Schedule.
- (iii) Each batch or lot as defined in the Test Schedule of material for use in the make-up of a processing medium is to be subject to inspection to the Test Schedule.
- (iv) The Director of Aeronautical Quality Assurance Directorate may at any time call for check tests on samples representing supplies delivered under the requirements of Clauses 4(i), 4(ii) or 4(iii).

#### 5. Changes in terms of approval

No change in formulation or in the inspection schedule shall be made without prior agreement of the Head of Materials and Structures, RAE, Farnborough, who will decide whether the significance of the change warrants the addition of a suffix to the approval number or the allocation of a new number.

Approved for Issue,

Dr. G. Pocock  
Head of Materials and Structures  
RAE, Farnborough

#### APPENDICES

Appendices I, II and III include all proprietary items approved for use in the manufacture, operation or repair of aerospace equipment, and are grouped in the following manner:

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## APPENDIX I

Approval Number	Material	Extent of Approval	Manufacturer
	<b>BRAZING METALS AND SOLDERS</b>		
4018A	Silver Brazing Alloy Grade MX-18	For silver soldering	The Sheffield Smelting Co Ltd, PO Box 28, Windsor Street, Sheffield S4 7WD
4535A	Savbit No 1, Soft Solder	For soldering of electrical, radio, etc connections, in lieu of solder to BS 219.	Multicore Solders Ltd, Multicore Works, Hemel Hempstead, Herts.
4578	LM10A Silver-Tin Solder	For use (1) where a high temperature of functional use is involved, ie higher than that advisable for tin/lead solder and (2) where a higher resistance to corrosion than that provided by lead containing solder is required.	Johnson Matthey Metals Ltd, 81 Hatton Garden London EC1.
4603	Silver Brazing Alloy MN2	For use on steel, including high alloy types and nickel alloys eg for elevated temperature service.	ditto
4769A	Silver Brazing Alloy Grade LX13	For silver soldering	The Sheffield Smelting Co Ltd, PO Box 28, Windsor Street, Sheffield S4 7WD.
4770A	Silver-bearing, soft solder Grade ST400	For soft silver soldering	ditto
4771A	Silver Brazing Alloy Grade MX-18 plus (Melt-Esi Plus)	For silver soldering	ditto
4773A	Silver-bearing, soft solder Grade SXZ 500	ditto	ditto
4775A	Silver-bearing, soft solder Grade SLT 200	For soft silver soldering	ditto
	<b>BEARING MATERIALS</b>		
4033	Glacier Standard Wrapped Bushes	For use as wrapped bushes	Glacier Metal Co Ltd, Kirkstyle, Kilmarnock, Ayrshire.
4272A	Ferobestos LA37	For use in bearings in under-carriage assemblies	Tenmat Ltd, Materials, Engineering Division, PO Box 22, Trafford Park, Manchester M17 1RU.
4273	Oilite Superload Grade A	For sintered bearings.	Manganese Bronze Ltd, Elton Park Works, PO Box 19, Hadleigh Road, Ipswich, Suffolk.
4274	Oilite Superload Grade B	ditto	ditto
4275	Oilite Superload Grade C	ditto	ditto
4454B	Holfos, BOHT Bronze	Phosphor bronze castings including solid and cored sticks for bearings and other aerospace applications.	Holcraft Castings & Forgings Ltd, PO Box 24, Whitehall Street, Rochdale OL12 0LL.
4518A	Bound Brook Porous Bronze	For filter elements in <i>aerospace</i> equipment.	GKN Boundbrook Ltd, Trent Valley Road, Lichfield, Staffs WS13 6HF.
4575A	Glacier DU (Bearings) (Standard Product)	For application where an oil-free lubrication is specified.	Glacier Metal Co Ltd, Kirkstyle, Kilmarnock, Ayrshire.
4576	Glacier DX Product	For use in engine bearing applications	ditto
4717	Glacier Standard DQ	For applications where components cannot conveniently be formed or pressed from conventional bearing materials and where it is undesirable to employ conventional lubricants or where reduced boundary friction is required.	Glacier Metal Co Ltd, Kirkstyle, Kilmarnock, Ayrshire
4805	Hidurax Special	For use in bushes and other suitable aerospace applications	Langley Alloys Ltd. Langley, Slough, Berks SL3 6EA.
4811	Deva Metal Sintered Bearing Material Ref HCuSn 86.13/6-1T1 (BH 1/6)	For use in aerospace applications operating at elevated temperatures	Glacier Metal Co Ltd, Argyle House, Joel Street, Northwood Hills, Middx. HA6 1LN.
4812	Deva Metal Sintered Bearing Material Ref HCuSn 86.13/8-1T1 (BH 1/8)	ditto	ditto
4813	Deva Metal Sintered Bearing Material Ref HCuSn 86.13/10-1T1 (BH 1/10)	ditto	ditto
4814	Deva Metal Sintered Bearing Material Ref HCuSn Pb 83.13/8-1 (BL 1/8)	ditto	ditto
4815	Deva Metal Sintered Bearing Material Ref BL HCuSn Pb 83.13/10-1 (BL 1/10)	ditto	ditto

## APPENDIX I -continued

Approval Number	Material	Extent of Approval	Manufacturer
	BEARING MATERIALS- <i>continued</i>		
4816	Deva Metal Sintered Bearing Material Ref BL 1/14A (Special Grade)	For use in aerospace applications operating at elevated temperatures.	Glacier Metal Co Ltd, Argyle House, Joel Street, Northwood Hills, Middx HA6 1LN
4824A	Stellite Grade X40 (Castings and Forgings)	For use where resistance to heat, abrasion and corrosion is required.	Deloro Stellite Ltd, Stratton St Margaret, Swindon Wilts.
4825	Deva Metal Sintered Bearing Material Ref HCuSn 86.13/6-1 (B 1/6)	For use in aerospace bearing applications.	Glacier Metal Co Ltd, Argyle House, Joel Street, Northwood Hills, Middx HA6 1LN
4827	Deva Metal Sintered Bearing Material Ref HCuSn 86.13/8-1 (B 1/8)	ditto	ditto
4829	Deva Metal Sintered Bearing Material Ref HCuSn 86.13/7-1T1 (BH 1/7)	ditto	ditto
4854	Deva Metal Sintered Bearing Material Ref FeCu 94.04/8-2MoT1 (FH 1/8)	ditto	ditto
4902A	Fiberslip B30 Laminate	Bonded PTFE/glass fibre laminate, self-lubricating bearing material, plain and flanged bushes, thrust pads and rings, flat bearings and rollers for use in specified aircraft applications. The Bonding Process is limited to bonding the laminate to specified metals.	Ampep Ltd, 108 Strode Road, Clevedon, Avon BS21 6QQ.
4903A	Fiberslip B40 Laminate	ditto	ditto
4933A	Fiberslip B60 Laminate	ditto	ditto
4958	Deva Metal Sintered Bearing Material Ref HCuSn Pb 84.13/6-1 (BL 2/6 now BL 4/6)	For use in aerospace bearing	Glacier Metal Co Ltd, Argyle House, Joel Street, Northwood Hills. Middx HA6 1LN
4964A	Fiberslip B70 Laminate	Bonded PTFE/glass fibre laminate, self-lubricating bearing material, plain and flanged bushes, thrust pads and rings, flat bearings and rollers for use in specified aircraft applications. The Bonding Process is limited to bonding the laminate to specified metals.	Ampep Ltd, 108 Strode Road, Clevedon, Avon BS21 6QQ.
4987	Uniflon R Bearing Liner	Bonded PTFE/nylon laminate, self-lubricating bearing material for use in aerospace applications.	Rose Forgrove Ltd, Rose Bearings Div. Saxilby Lincolnshire LN1 2LW.
6011	X-140 Bearing Material	Bonded PTFE/glass fibre laminate, self-lubricating bearing material, plain and flanged bushes, thrust pads and rings, flat bearings and rollers for use in specified aircraft applications. The Bonding Process is limited to bonding the laminate to specified metals.	Ampep Ltd, 108 Strode Road, Clevedon, Avon BS21 6QQ.
6015	X-170 Bearing Material	ditto	ditto
6048	Ferobestos LF10, LF103, LF107 LF1037	Bonded asbestos cloth/phenolic resin used as bearings and wearing strips; heat insulation strips, maximum temperature 175°C.	Tenmat Ltd, Engineering Materials Division, PO Box 22, Trafford Park, Manchester M17 1RU.
	NON-FERROUS MATERIALS		
4433A	Telcon Cu-Be 250	For instruments and other aerospace applications.	Telcon Metals Ltd, PO Box No 12, Manor Royal, Crawley, Sussex RH10 2QM.
4606B	Sintermatt HA 190	For use as mass balance weights in aerospace equipment.	<del>Johnson Matthey Metals Ltd, 81 Hatton Garden, London EC1.</del> <b>M.J. MATERIALS LTD</b>
4613	GEC Heavy Alloy	For use as mass balance weights in aerospace equipment.	<del>Oscram (GEC) Ltd, Wembley Works, PO Box 17 East Lane, Wembley, Middx. HA7 7PG.</del> <b>P.O. Box 136, Manchester M6</b>
4703A	Avro Aluminium Honeycomb	For use in aerospace applications.	British Aerospace Aircraft Group, Manchester Division, Chester Road, Woodford, Bramhall, Stockport, Cheshire SK7 1QR.
4749A	Baker 26K Iridium Drawn Wire	For use as centre and earth electrodes of sparking plugs.	Englehard Industries Ltd, Davis Road, Chessington, Surrey.
4764E	Aeroweb Aluminium Alloy Honeycomb, Core Types NS3, 3003, 5052, 5056.	For use in the construction of aerospace parts.	Ciba-Geigy (UK) Ltd, (Bonded Structures Division), Duxford, Nr Cambridge CB2 4QD.
4849A	Mattey 3 Chromium-Copper Alloy	For use in aerospace applications.	Johnson Matthey Metals Ltd, 81 Hatton Garden, London EC1.

## APPENDIX I-continued

Approval Number	Material	Extent of Approval	Manufacturer
	<b>NON-FERROUS MATERIALS- continued</b>		
4869A	Alloy 625	For electrical contacts particularly for brushes in contact with slip rings and similar applications.	Johnson Matthey Metals Ltd, 81 Hatton Garden, London EC1.
4888a	Silver Cadmium Oxide Grade GD 25.	For use as electrical contact material in aerospace equipment.	Thessco Ltd, Royds Mills, Windsor Street, Sheffield S4 7WD.
4890A	Silver Cadmium Oxide GD 10	ditto.	ditto.
4891A	Silver Graphite Grade GC10	ditto.	ditto.
4892A	Silver Nickel Grade GN 1	ditto.	ditto.
6009	Alloy 625R	For use as wire, strip or pressed parts for contacts brushes and similar applications in the aerospace industry.	Johnson Matthey & Co Ltd, Exhibition Grounds, Wembley, Middlesex.
	<b>FERROUS MATERIALS</b>		
4801B	Metcoloy 2-NS Wire	Chromium steel wire for use in building up of worn, over-machined or corroded components and the restoration of press fits by spray application from pistol or gun.	Metco Ltd, Chobham, Woking, Surrey GU24 8RD.
	<b>HEAT AND WEAR RESISTING MATERIALS</b>		
4655E	Stellite Alloy No SF1	For hard facing ferrous parts for resistance to abrasion, corrosion and high temperatures.	Deloro Stellite (UK) Ltd, Stratton St Margaret, Swindon Wilts.
4656B	Stellite SF60	For hard facing steel parts	ditto.
4712A	Wimet Grade W	Wear resistant material for use in aerospace equipment.	Wimet Ltd, Hard Metals Division, Torrington Avenue, Coventry CV4 9AD.
4732A	Stellite Alloy No 1, Rod and Castings	Rods for hard facing steel parts. Castings for resistance to wear and heat	Deloro Stellite (UK) Ltd, Stratton St Margaret, Swindon Wilts.
4733A	Stellite Alloy No 6, Rod and Castings	ditto	ditto
4734A	Stellite Alloy No 12, Rod and Castings	Rods for hard-facing steel parts. Castings for resistance to wear and heat.	Deloro Stellite (UK) Ltd, Stratton St Margaret, Swindon Wilts.
4735A	Stellite Alloy No 3, Castings	For resistance to wear	ditto.
4756B	Stellite SF6	For hard facing ferrous parts	ditto.
4757B	Stellite SF12	For hard facing ferrous parts	ditto.
4782A	Stellite Grade 4 Casting Alloy	For resistance to wear and heat	ditto.
4784A	Stellite SF20	For hard facing ferrous parts	ditto.
4785	Stellite Grade F, Hard Facing Rod	ditto.	ditto.
4788	'Sprabond Wire'-NS	For building up worn components by spraying.	Metco Ltd, Chobham, Woking, Surrey GU24 8RD.
4789	Metco Powder 16C	For hard facing by spraying	ditto.
4795A	Colmonoy No 4	For hard facing ferrous parts where resistance to abrasion, corrosion and high temperature required.	Wall Colomoney Ltd, Alloy Site, Pontardawe, Swansea, West Glamorgan SA8 4HL.
4796		ditto.	ditto.
4797	Colmonoy No 5	ditto.	ditto.
4865	Colmonoy No 6 Metco Nickel-Clad Aluminium Powder 404	For forming nickel aluminide coatings on metal for bonding, protection at elevated temperatures and for mixing with other materials.	Metco Ltd, Chobham, Woking, Surrey GU24 8RD.
4929A	Haystellite Alloy 52	For application to surfaces subjected to wear and heat.	Deloro Stellite (UK) Ltd, Stratton St Margaret, Swindon Wilts.
4948A	Metco Nickel-Aluminium wire 405-NS (Flame Spraying).	For use where a resistance to heat and corrosion are required.	Metco Ltd, Chopham, Woking, Surrey GU24 8RD.
4949A	Metco Nickel-Aluminium Powder 450-NS (Flame Spraying).	ditto.	ditto.
4950A	Metco 18C-NS Powder (Flame Spraying)	For applications to surfaces where a resistance to wear, heat and corrosion are required.	ditto.

## APPENDIX I-continued

Approval Number	Material	Extent of Approval	Manufacturer
	HEAT AND WEAR RESISTING MATERIALS-continued		
4951A	Metco 12F-NS Powder (Flame Spraying)	For applications to surfaces where a resistance to wear, heat and corrosion are required.	Metco Ltd, Cobham, Woking, Surrey. GU24 8RD
4970	Durasint Grade S73	For use as a friction material where there is prolonged or continuous slip.	Sintered Products Ltd, Hamilton Road, Sutton-in-Ashfield, Notts NG17 5LL.
6100	Hoybide Tungsten Carbides	For moulded and sintered blanks for subsequent grinding for balls for bearings, and bearings in aerospace applications.	Anderson Strathclyde plc, PO Box 1, Princes Risborough, Aylesbury, Bucks HP17 9EA.
6101	Plansee Tungsten Carbides	For moulded and sintered blanks for subsequent grinding for balls for bearings, and bearings in aerospace applications.	Plansee Tooling Ltd, Cliff Lane, Grappenhall, Warrington WA4 3JX.

## APPENDIX II

Approval Number	Material	Extent of Approval	Manufacturer
	ADHESIVES AND CEMENTS		
4142	Tensol Cement No 3	For dough-jointing of perspex	Imperial Chemical Industries Ltd, (Plastics Division), Bessemer Road, Welwyn Garden City, Herts.
4322	'Tico' Adhesive	For sticking Nebar Cork jointing (BSF66) to metal.	James Walker and Co Ltd, Lion Works, Woking, Surrey.
4362	Redux 120 Adhesive	Thermosetting adhesive for joining thermosetting plastics to metal, and to thermosetting plastics.	Ciba-Geigy (UK) Ltd, (Plastics Division), Duxford, Cambridge CB2 4QD.
4483	Scotchgrip Industrial Adhesive 847	General purpose synthetic rubber adhesive for sticking rubber and plastic to rubber.	3M (United Kingdom) Ltd, Gorseinon Road, Penllergaer, Swansea, SA4 1GD.
4564	Evostick Impact Adhesives 528	General purpose neoprene based adhesive for bonding.	Evode Ltd, Common Road, Stafford.
4679A	Bostik 2402, Bostikure D and Bostikure 9252	For bonding rubber overshoes to propellers. For use in the manufacture and repair of aircrew and survival clothing and inflatable equipment.	Bostik Ltd, Ulverscroft Road, Leicester LE4 6BW.
4698	Scotchgrip vinyl Adhesive 1099	Adhesive for bonding plastic (resistant to plasticisers).	3M (United Kingdom) Ltd, Gorseinon Road, Penllergaer, Swansea, SA4 1GD.
4705A	Tensol No 70	Cold setting adhesive for acrylic parts.	Imperial Chemical Industries Ltd, (Plastics Division), Bessemer Road, Welwyn Garden City, Herts.
4713	Araldite AY105, Hardener HY953F, system	General purpose adhesives for bonding metals, ceramics, glass, rubber and plastics.	Ciba-Geigy (UK) Ltd, Plastics Division, Duxford, Cambridge CB2 4QD.
4962A	Adhesive S1005 System	A strippable light duty system for bonding polyolefins to aircraft acrylic canopies.	Raychem Ltd, Cheney Manor, Swindon, Wilts.
4973	Araldite SV409 and Polyamide 140	For interbonding of phenolic asbestos and aluminium alloy in phenolic asbestos drop tanks.	Ciba-Geigy (UK) Ltd, Plastics Division, Duxford, Cambridge CB2 4QD.
4974A	Araldite MY750/Hardener HT972	For use as a laminating resin in the fabrication of the fins for drop tanks 'Jaguar' aircraft and for 'Tornado' radomes.	ditto
6003B	Thread locking sealants Nos 222, 242, 638	Materials suitable for locking threads, retaining and sealing close fitting metallic and non-metallic joints with a predetermined locking torque.	Loctite Holdings Ltd, Watchmead, Welwyn Garden City, Herts.
6008D	Permabond 100 Series Adhesives and Associated Activators	For locking threads, sealing and retaining metallic and non-metallic joints with a predetermined locking torque.	Permabond Adhesives, Woodside Road, Eastleigh, Southampton.
6031	Araldite AV100/HV100 system	For bonding aluminium alloy fittings to carbon fibre reinforced composites.	Ciba-Geigy (UK) Ltd, (Bonded Structures Division), Duxford, Cambridge CB2 4QD.
6033	Tensol No 12	For use in bonding polymethylmethacrylate parts which fit accurately within 0.12 mm.	Imperial Chemical Industries Ltd, (Plastics Division), Bessemer Road, Welwyn Garden City, Herts.
6036	Hardener XD 716	For use as a curing agent for cold setting epoxy systems used as a flexible gap sealant.	Ciba-Geigy (UK) Ltd, (Plastics Division), Duxford, Cambridge CB2 4QD.
6040	Araldite 2001 Adhesive System	Two part, cold setting epoxide resin for bonding metals, ceramics and wood to themselves and each other.	ditto.
6041	Araldite 2002 Adhesive System	Two part, rapid setting multi-purpose adhesive, suitable for bonding metals, ceramics, glass, rubbers, rigid plastics.	ditto.
6042	Araldite 2003 Adhesive System	Two part, low viscosity hot or cold curing multi-purpose system suitable for bonding large areas.	ditto.
6043	Araldite 2004 Adhesive system	Two part hot or cold curing multi-purpose system suitable for bonding metals, ceramics, rubber, plastics to themselves and each other, produces bonds that are semi rigid with retention of strength up to 120°C.	ditto.
6044	Araldite 2005 Adhesive system	Two part hot or cold curing multi-purpose system suitable for bonding metals, ceramics, glass, rubber, rigid and glass reinforced plastics; giving bonds with high shear and high peel strengths.	ditto.



## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	ADHESIVES AND CEMENTS <i>-continued</i>		
6046	Araldite 2007 Adhesive system	One part hot curing multipurpose adhesive suitable for bonding metals, ceramics, fibre reinforced plastics, glass and some other heat resistant materials. Some resistance to water. Retains some strength up to 130°C.	Ciba-Geigy (UK) Ltd, (Plastics Division), Duxford, Cambridge CB2 4QD.
6060A	Loctite 648 and Loctite TCA	A thread locking sealant given a pre-determined locking torque on threaded metal fasteners and close fitting metallic and non-metallic joints, can be used with or without activator.	Loctite Holdings Ltd, Watchmead, Welwyn Garden City, Herts AL7 1JB.
6074	E32 Structural Epoxy Adhesives (2 part)	For use as a room temperature curing adhesive system which gives good cohesive impact and vibration resistant bonds.	Permabond Adhesive Ltd, Woodside Road, Eastleigh, Hants.
6082	E11 Epoxy Adhesive	For a two part, room temperature curing epoxy adhesive which exhibits good impact and vibration resistant properties.	ditto.
6088	E04 Toughened Epoxy Adhesive (2 part)	For use as a toughened adhesive, curing at room temperature where good impact and vibration properties are required. It also has good gap filling properties and is thixotropic.	ditto.
6093	ESP 110 Single Part Epoxy Adhesive	For use as a high temperature adhesive for structural bonding metal-to-metal components with good gap filling properties.	ditto.
6095	Chemlok 236A Bonding Agent and Chemlok 205 Primer	For bonding metal retaining plates into an EPDM rubber container, and for laminating plies of EPDM rubber.	Durham Chemicals Ltd, Birtley, Chester le Street, Co Durham DH13 1QX.
6097	Activators N and TCA	For use as adhesive activators to facilitate complete curing of <i>Loctite</i> anaerobic adhesives and thread locking compounds on both active and inert surfaces.	Loctite Holdings Ltd, Watchmead, Welwyn Garden City, Herts AL7 1JB.
6098	Raychem Adhesive S1125	For a two part epoxy adhesive for bonding Raychem heat-shrinkable plastic and elastomeric tubing and moulded components.	Raychem Ltd, Cheney Manor, Swindon SN2 2QS.
6102A	Flexon Acrylic Adhesive F241 with Initiator No 1	For the bonding of metal subframes to neoprene rubber seals and neoprene rubber seals to <i>UNSTRESSED</i> acrylic transparent canopy material in Harrier GR3, T4 and Mk8; Sea Harrier FRS 1 and 2 and Hunter MkV aircraft. (Note: <i>Unstressed</i> during fabrication.)	Permabond Ltd, Woodside Road, Eastleigh, Hants.
	SELF ADHESIVE FILMS		
4663A	Scotchcal brand Fluorescent 3484 Series and 3960 Scotchcal Edge Sealer	For improving conspicuity of aircraft in poor daylight.	3M (United Kingdom) Ltd, Gorseinon Road, Penllergaer, Swansea, SA4 1GD.
4961	Self Adhesive Emblems and Markings, Scotchcal Film No 4690 with Edge Sealer.	Emblems, letters and numbers on air-	ditto.
4969	Self Adhesive Emblems and Markings, Scotchcal Film No 3650 with Edge Sealer.	craft (restricted to 400 knots).	ditto.
6072	Transparent Polyurethane Film Tape Scotch Tapes 8561, 8591	Relates to the use of pressure-sensitive adhesive transparent tapes as a protective surface for areas in forward facing radomes and on helicopter rotor blades to minimise sand and rain erosion.	ditto

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	<b>SELF ADHESIVE FILMS- continued</b>		
6106	Stoneguard 2000 Film	For a self-adhesive polyurethane film for the protection of irregular joints and leading edges of helicopter blades aerofoil sections and other surfaces subject to erosion by high speed particles and rain.	Fasson (UK) Ltd, Eastman Way, Hemel Hempstead, Herts.
6108	Fascal 6200 Fluorescent Vinyl Film	For use where increased conspicuity is demanded, for aircraft, ground support equipment, safety markings and signs. For adverse environments, aircraft exceeding 400 kts, a proprietary edge sealer, compatible with PVC and the aircraft paint finish shall be used.	ditto.
6109	Fascal 900 Vinyl Marking Film	For the marking of military aircraft, aeronautical equipment, military vehicles signs and markings. For advance environments, aircraft exceeding 400 kts, a proprietary edge sealer compatible with PVC and the aircraft paint finish shall be employed.	ditto.
	<b>CLEANING MATERIAL</b>		
4899	Ardrox 2601 (Application Cleaners)	For cleaning carbonised deposits from jet engines in situ.	Ardrox Ltd, 74 Furlong Road, Bourne End, Bucks.
4904A	Striplene 300	For hot stripping metal engine components of carbon deposits and paint residues.	Henkel Chemicals Ltd, Henkel House, 292-308 Southbury Road, Enfield, Middx.
4968A	Paint Remover Heavy Duty, Hot Bath Ardrox 26HT.	Designed for use at elevated temperatures. If used outside strictly defined operating conditions severe corrosion may result. Before use a suitable process specification must be submitted and approved. Not to be used on steel parts of UTS greater than 1400 n/mm <sup>2</sup> , if stressed.	Ardrox Ltd, 74 Furlong Road, Bourne End, Bucks.
6000A	Paint Remover Ardrox 29 and Seal 29	Removal of paint from hydraulic components.	Ardrox Ltd, 74 Furlong Road, Bourne End, Bucks.
6013	Paint Remover Dasic D23 and D23V	Heavy duty paint strippers for use on aircraft epoxy and polyurethane paint systems.	Dasic International Ltd, Winchester Road, Romsey, Hants SO5 8YD.
	<b>CORROSION PREVENTATIVES</b>		
4684	Frin Fretting Corrosion Inhibitor.	For use in blade root bearings for Rotol propellers.	The Timken Co, British Timken Division, Duston, Northampton NN5 6UL.
	<b>DAMPING FLUIDS</b>		
4386A	Arlcone Fluid	For use in filling Dowty liquid springs.	Dowty Rotol Ltd, Cheltenham Road, Gloucester GL2 9QH.
	<b>DE-ICING AND DE-FROSTING FLUIDS</b>		
4907	Kilfrost ABC De-icing Compound	Anti-icing protection for parked aircraft, and for the de-frosting of turn-round aircraft. Not considered suitable for use in aircraft de-icing systems.	Kilfrost Ltd, Albion Works, Haltwhistle, Northumberland NW9 0HJ.
4939A	Kilfrost WWF/MOD2	Windscreen washing fluid for use in certain aircraft.	ditto.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
<b>FILLING MATERIALS</b>			
4045	Pop Rivet Filler Ryland 2313	For filling during pop rivetting operations.	Llewellyn Ryland Ltd, Haddon Street, Birmingham B12 9DB.
4548	PR Void Filling and antichafing compound	For filling voids in pressure cabins and preventing chafing of bag tanks.	PRC (UK) Ltd, Portland Road, Newcastle-on-Tyne NE2 1BL.
4579	Araldite PZ985/HZ985 systems	Filling and coating resin for porous phenolic resin impregnated asbestos mouldings.	Ciba-Geigy (UK) Ltd, Plastics Division, Duxford, Cambridge CB2 4QD.
4742B	Chemical Resistant Stoppers a. F581-2016 F581-2017	For filling pop rivets and minor depressions-two part cold curing stopper.	Imperial Chemical Industries Ltd, Paints Division, Wexham Road, Slough, Berks. SL2 5DS.
6105	Double Bond Putty and Cream (RS 1478/1 and RS 2688/3).	For a cold curing filler and surfacing compound.	Stag Polymers and Sealants, Tavistock Road, West Drayton, Middx.
<b>GLASSES AND GLAZING MATERIAL</b>			
4179	Prestik and Prestikol sealing compounds 5602 and 5603.	For glazing windows in non-pressured aircraft.	Bostik Ltd, Ulverscroft Road, Leicester LE4.
4348	Boscoprene cement No 2100 Parts 1 and 2	Non-shrinking glazing compound and integral tank sealant. Sealant for cable looms in Plessey end fittings.	ditto
4953B	Triplex Ten-Twenty glass	For aerospace glazing	Triplex Safety Glass Co Ltd, Kings Norton, Birmingham.
6016	Triplex Ten-Twenty glass	As a facing glass for aerospace glazing.	ditto.
6017	Process for the toughening of structural glass.	For the toughening of structural glass for aerospace glazing.	ditto.
6050	Dynacrylic Sheet	The extent of this approval relates to a colourless transparent, biaxially orientated, unplasticised cross-linked polymer of methylmethacrylate sheet; having specific light transmission and craze resistance characteristics, intended for use as an aircraft glazing material.	Lucas Aerospace, The Airport, Luton LU2 9NO.
<b>HONEYCOMB CORE MATERIALS</b>			
4397A	Aeroweb Types Go and GI	Core material for aerospace sandwich structures	Ciba-Geigy (UK) Ltd, (Bonded Structures Division), Duxford, Cambridge CB2 4QD.
<b>HYDRAULIC FLUIDS</b>			
4081C	Lockheed No 22 Fluid	For use in the main undercarriage shock absorbers in Comet and Nimrod aircraft.	Automotive Products Ltd, AP Precision Hydraulics Division, Shaw Road, Speke, Liverpool LS24 9JV.
4881D	Skydrol 500B	Hydraulic Fluid for VC10 aircraft	Monsanto Ltd, Chineham Court, Chineham, Basingstoke, Hants.
<b>INSULATING MATERIALS</b>			
4455C	Dalfratex Batt	Fibrous thermal insulating material for use at temperatures up to 1100°C.	The Chemical & Insulating Co Ltd, West Auckland Road, Darlington, Co Durham DL3 0UR.
4503D	Dalfratex Silica Cloths	For use in the manufacture of thermal insulating blankets resistant to temperatures up to 1000°C.	ditto.
4527D	Dalfratex Silica Yarn and Cordage	ditto.	ditto.
4562D	Dalfratex Silica Tapes	ditto.	ditto.
4577C	Dalfratex Silica Sleeving	For use as a thermal insulant up to 1000°C.	ditto.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	INSULATING MATERIALS <i>-continued</i>		
6005	Fibreglass Aircraft Insulation	For use as a thermal and an acoustical insulation material in aircraft environments not exceeding 250°C.	Pilkington Ltd, St Helens, Merseyside WA10.
6027	Glass Fibre Insulation Batting	For thermal and acoustical insulation on aircraft at temperatures up to 250°C.	Jecco Aviation Ltd, Jecco House, Windham Road, Bourmouth BA1 4RG.
6030A	Dalfratex Silica Rope	For use in the manufacture of thermal insulants, resistant to temperatures up to 1000°C.	The Chemical & Insulating Co Ltd, West Auckland Road, Darlington, Co Durham DL3 0UR.
6039	Filmed glass fibre insulation	Glass fibre batting, filmed with unplasticised polyvinyl chloride (PVC) containing glass fibre batting conforming to DTD 900/6027.	Jecco Aviation Ltd, Jecco House, Windham Road, Bourmouth BA1 4RG.
6084	Sintered Ceramic Materials, Sintox-Hylumina	The approval relates to sintered alumina for use in special application ceramics, engine ignition systems electrical insulation, metal-ceramic assemblies and sealed terminals. Suitable for use where high temperatures and chemical and mechanical erosion are required.	Lodge Ceramics Ltd, St Peters Road, Rugby, Warwickshire.
	JOINTING MATERIALS		
4134B	Plastic Hermetite compound (heavy, medium and light grades)	Sealing compound resistant to petrol, mineral oil and ester lubricant.	Stag Polymers 8 Sealants Ltd, Tavistock Road, West Drayton, Middx.
4301A	Celloseel	A pigmented varnish jointing compound where resistance to kerosine or ester lubricants is required.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4344	High Temperature Jointing Compound Silkolene, Grade 762.	For prevention of leaks of gases at high temperatures on Rolls Royce turbine engines.	Dalton & Co Ltd, Belper, Derby DR5 1WF.
4387B	Flexible Hermetite 1326B	Non-hardening liquid engine jointing compound resistant to mineral oils, ester lubricants, aviation fuels and water.	Stag Polymers and Sealants Ltd, Tavistock Road, West Drayton, Middx.
4434B	J 11185 Heat Hardening Adhesive	For use in the construction of hollow steel propeller blades.	BP Chemicals Ltd, Sully, Penarth, S Glamorgan,
4488A	Jointing Compound JC 5A	Jointing compound, used as substitute for DTD 369B where resistance to ester lubricants is required.	Desoto Titanine Ltd, Industrial Paints, Darlington Road, Shildon, Co Durham.
4544D	Super Twilstele Jointing	High temperature jointing material	James Walker & Co Ltd, Lion Works, Woking, Surrey.
4549A	Celloseel QH	Jointing compound, used as a substitute for DTD 369B where resistance to ester lubricants, kerosine and heat are required.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4566	Araldite AV12 I/Hardener HY951	As a bonding, surfacing or gap-filling medium.	Ciba-Geigy (UK) Ltd, Plastics Division, Duxford, Cambridge CB2 4QD.
4586B	Hylomar Jointing Compounds SQ32, Grade S, H, M, L and R	For use as a sealant between metal faces in engines	Marston Lubricants, Naylor Road, Liverpool.
4645A	Non-hardening Jointing Compound JC6	Anti-fretting compound resistant to ester lubricant (anti-fretting approval subject to type test in specific joint).	Desoto Titanine Ltd, Industrial Paints, Darlington Road, Shildon, Co Durham.
4766A	Zinc Chromate Pigmented Silicone Grease LR4871	Anti-corrosion jointing compound for non-rotating axle assemblies required to be broken down and adjusted.	ditto.
4909	Nebar, Standard grade	Jointing material essentially for gasket applications.	James Walker Ltd, Lion Works, Woking, Surrey.
4911	Nebar, HP grade	As above, but where heavy loads are involved.	ditto.
4971	Mastinex Jointing Compound AF5/34A (5982N 3010)	High temperature (to 130°C) resistant non-drying jointing compound for anti-corrosive purposes.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4982	Nebar, Jointing Material LRC 631	Fuel tank gaskets	James Walker Ltd, Lion Works, Woking, Surrey.
6054	Wellseal RS2965 Non-Flammable Engine Jointing Compound	The approval is for use as a jointing compound for metal-to-metal faces where a tolerance to vibration distortion or thermal expansion is necessary. Can be used in contact with mineral oil and gasoline up to 200°C.	Stag Polymers Ltd, Tavistock Road, West Drayton, Middx.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	JOINTING COMPOUNDS- <i>continued</i>		
6107	Casting Compound RS 2958 Pts A and B	For encapsulation of electronic components.	Stag Polymers, Tavistock Road, West Drayton, Middx.
	LUBRICANTS		
4630A	Rocol MX-33	For use on certain precision ball bearings and actuator gear-boxes.	Rocol Ltd, Rocol House, Swillington, Leeds, West Yorkshire LS26 8BS.
4639	Dag Dispersion 580	Dry lubricating coating for certain metal parts.	Acheson Colloids Co, PO Box 12, Prince Rock, Plymouth, Devon PL4 0SP.
4647	Molydag 709	Bonded dry film lubrication for certain metal parts.	ditto.
4648A	Moly VI Bond 444	Bonded dry lubricating coating	K S Paul Ltd, Nobel Road, Eley Estate London W18 3DE.
4669	Moly Paul Polypaste 300 (Air)	For use as an anti-seize and lubricant in certain aircraft and GW equipment.	ditto.
4677A	Emralon 810	For producing anti-wear and low friction surfaces on mechanical parts.	Acheson Colloids Co, PO Box 12, Prince Rock, Plymouth, Devon PL4 0SP.
4752A	Moly Paul Moly-ITC-Bond	Bonded dry lubricating coating	K S Paul Ltd, Nobel Road, Eley Estate London W18 3DE.
4754	Moly Paul Silicone Paste 500 (Air)	For certain anti-fretting and anti-seize applications in specified engines and ERUs.	ditto.
4802B	Esso Andok 260	For lubrication of gearbox drive shaft universal joints.	Esso Petroleum Co Ltd, Esso House, Victoria Street, London SW1 5JW.
4872A	Mobilplex 47	Lubrication of cartridge starters, Type SBC 720.	Mobil Oil Co Ltd, 54/60 Victoria Street, London SW1E 6QB.
4877A	Hellerine M	A lubricant for fitting cable binding and identification sleeve, and for fitting cables in aircraft.	Bowthorpe Hellermann Ltd, Hellermann Electrical Division, Pennycross Close, Plymouth, Devon PL2 3NX.
4910A	Beacon Q330 Grease	Lubricant for the tailplane actuator, slat screwjack and flap transmission system of VC10 aircraft.	Esso Petroleum Co Ltd, Esso House, Victoria Street, London SW1 5JW.
4913A	Aero Shell Fluid 2XN	An inhibition oil for use in the engine and transmission of the Sioux helicopter.	Shell (UK) Oil Ltd, PO Box 148, Strand, London WC2R 0DX.
4914A	Rocol GG 17866 Grease	Lubricant for Bowden cables	Rocol Ltd, Rocol House, Swillington, Leeds, West Yorkshire LS26 8BS.
4959A	Dry Film Lubricant PL94 (Formula E3699)	Bonded dry film lubricant coating and anti-fret media.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4966B	Hydrotape 1842B	Traction fluid in certain Lucas constant speed drive units.	Elf Oil (GB), Elf House, PO Box 80, Woodland Road, Altringham, Cheshire.
4972	Rocal MV-4	Dry film lubricant for titanium fasteners in aircraft.	Rocol Ltd, Rocol House, Swillington, Leeds, West Yorkshire LS26 8BS.
4980	Rocol Grease MX-44	Lubricant for nozzle bearing races of Pegasus engines.	ditto.
4981A	Aviation Oil S8350	Gearbox Lubricant for certain helicopters.	Shell (UK) Oil Ltd, PO Box 148, Strand, London WC2R 0DX.
4990	Rocol MHT Grease	Lubricant for the HP compressor variable inlet guide vane operating mechanism of Pegasus engines Mk 101, 102, 103 and conversions.	Rocol Ltd, Rocol House, Swillington, Leeds, West Yorkshire LS26 8BS.
6057	Arma G-213 (Formula 213-80) Grease	The approval is limited to use as a low temperature lubricant on Nimrod aircraft.	Century Oils Ltd, New Century Street, Hanley, Stoke-on-Trent ST1 5HU.
6065	Anti-seize Compound 'Coppercrest'	As an anti-seize compound in air turbines.	Ilex Compounds Ltd, Reform Road, Maidenhead, Berks SL6 8BY.
6073	PL 239 (Formula 3862 X9010) Dry Film Lubricant	The approval is limited to the use of the material as a bonded dry film lubricant and anti-fret media.	PPG Ind (UK) Ltd, Ladywood Works, PO Box 359, Rotton Park Street, Birmingham, West Midlands
6079	Fomblin YR Fluid	The approval is limited for use as a lubricant on oxygen equipment and accessories.	Rocol Ltd, Rocol House, Swillington, Leeds, West Yorkshire LS26 8BS.
6080	Fomblin OT20 Grease	The approval is limited for use as a lubricant on oxygen equipment; at temperatures below minus 10°C.	ditto.
6081	Fomblin RT 15 Grease	The approval is limited for use as a lubricant on oxygen equipment.	ditto.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	POLISHES		
4258A	Jove Wadpol Polish Type HR	For polishing bare-metal aircraft	Valay Industries Ltd, Clough Mill, Shelf, West Yorks HX3 7JY.
4438A	Jove Wadpol Polish Type K2	For polishing bare-metal aircraft	ditto.
	PAINTS AND VARNISHES		
4051	Perspex Protective Lacquer F 962-5005	For protection of Perspex panels and shaping from damage in handling and storage.	Imperial Chemical Industries Ltd, (Paints Division), Wexham Road, Slough, Berks. SL5 5DS.
4079A	Cellon Heat-resisting Paint E3678/30L	For use on exhaust rings, manifolds, stubs and tail-pipes.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4088A	Durameg Enveloping Varnish	External protection of coils impregnated as for DEF31-A.	Penetone Chemicals, Cramlington, Northumberland.
4093A	Aerolac Metal Protection Varnish	For internal protection of aircraft engines.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4102A	Non-inflammable Flexible Lacquer	Externally in conjunction with glass fibre as fireproof tank covering.	ditto.
4123A	Rockfast non-inflammable Dope RD 1417	Externally in conjunction with glass fabric as fireproof tank covering.	Crown Decorative Products Ltd, Paints Division, Ind Finishes, PO Box 37, Crown House, Hollins Road, Darwen, Lanes BB3 0BG.
4124A	High Temperature Resisting Paint No 2845	For use on mild steel exhaust parts of aero-engine.	Croda Paints Ltd, Bankside, Hull HU5 1SQ.
4165A	Dulux Red, Anti-tracking Varnish, Air Drying F338-2026 (spraying) F338-3510 (brushing)	Anti-tracking finish for electrical equipment.	ICI (Paints Division), Wexham Road, Slough, Berks. SL2 5DS.
4254A	Bostik Primer 9252	Primer for use on external surfaces of radomes as specified in DTD 926B.	Bostik Ltd, Ulvercroft Road, Leicester LE4 6BW.
4399	Prodor-Glas System	Corrosion preventing lining for refuellers and bulk fuel tanks.	Prodorite Ltd, Eagle Works, Wednesbury, Staffs.
4449B	Durameg Varnish AS 5305.	An impregnating varnish for electrical coils, where resistance to temperatures up to 200°C is required.	Penetone Chemicals, Cranlington, Northumberland.
4485	Paint System Matt Black, Spraying	For cockpit interiors or equipment installed therein.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4515A	Lacquer for Rubber	Protection of rubber from ozone cracking.	ditto.
4554A	Silicone Varnish MS 997	Electrical impregnating varnish for continuous operation at 200°C.	Dow Corning Ltd, Barry, S. Glam. CF6 7YL.
4646B	Stoving Enamel FSE 66 and Accelerator AC1	Stoving enamel resistant to castor oil based hydraulic fluid, stoveable at 180°C alone or at 150°C when cured with an accelerator.	Desoto Titanine, Darlington Road, Shildon, Co Durham.
4650A	Antifret Primer LT 8123	A waterproof etching primer with antifret properties (antifretting approval subject to type test in specific joint).	ditto.
4660A	Scuff-resistant finish VA12 RD 10FR	Scuff resistant finish with fire resistant and anti-abrasion properties for cockpit floors.	FPT Industries Ltd, The Airport, Portsmouth PO3 5PE.
4762A	Clear Lacquer TVZ-119 and Activator TVZ-121	Internal scheme for radomes and dielectric windows.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4787	Chemical Resistant Clear Lacquer F292-4 Activator F273-5077 Thinners 850-805	Bonding glass-cloth to wooden helicopter rotor blades.	Imperial Chemical Industries Ltd, (Paints Division), Wexham Road, Slough, Berks. SL2 5DS.
4870B	Heat Resisting Epoxy Scheme for engines (chromated)	Protection of engines and engine components made of aluminium, magnesium or their alloys.	Herberts, Freshwater Road, Dagenham, Essex RM8 1RU.
4918A	Polyurethane Walkway Finishing paint FE50W	Chemically resistant walkway coating to be applied over the full finishing scheme, for access areas on upper surfaces where there is a slipping hazard and no safety tapes can be applied.	Desoto Titanine Ltd, Industrial Paints, Darlington Road, Shildon, Co Durham.
4919B	Epoxy primer (lead-free)	Epoxy primer suitable for entry into filling factories but not for direct and continuous contact with explosives.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4925B	Paint, Primer Epoxide Strontium Cromate, Stoving Ref 588/0066 and Thinners 485/0165	For the protection of magnesium and magnesium alloys as part of the process conforming with DTD 911C.	Herberts, Freshwater Road, Dagenham, Essex RM8 1RU.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	<b>PAINTS AND VARNISHES-</b> <i>continued</i>		
4943A	High Heat Resisting Stoving Enamel Aluminium PL101 E3746/RZ	Protection of aircraft engine components up to 550°C.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 0AD.
4967	Protective Lacquer FPT/N27	Surface protection of fabric reinforced rubber and/or plastic proofed sheeting.	FPT Industries Ltd, The Airport, Portsmouth PO3 5PE
4976	Rain Erosion System F231-949/F210-747 With Primer F292-4 (GRP) and F580-2010/F580-2009 (metals)	Protection of GRP and metallic surfaces against rain erosion.	Imperial Chemical Industries Ltd, (Paints Division), Wexham Road, Slough, Berks. SL2 5DS.
6002	Heat-resisting ES Coating PL 205	Stoving enamel for aircraft engine components. Maximum temperature for use 250°C.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 7JA.
6023	Protective Lacquer (Parts A and B) FPT/BC/13	For addition surface protection and/or colour finish of rubber and/or plastic components.	FPT Industries Ltd, The Airport, Portsmouth PO3 5PE
6038	Flexible Polyurethane Paint (PU 66)	Cold curing paint scheme. Good extensibility weathering performance.	PPG Ind (UK) Ltd, Rotton Park Street, Birmingham, West Midlands B16 7JA.
6053	Paint System Elastomeric Polyurethane (two part).	The approval relates to a coating system having a good flexibility and strength to restrain the movement of loose rivets in aircraft engine intakes. Also suitable for application to the leading edges of aircraft wings to protect these surfaces against the effects of erosion.	Imperial Chemical Industries Ltd. (Paints Division), Wexham Road, Slough, Berks.
6056	Chemglaze	The approval relates to a 2-pack elastomeric glossy polyurethane system for application to radomes and leading edges of aircraft wings to protect the surface.	Hughson's Chemicals, Stretford Motorway Est., Barton Dockyard Road, Stretford, Manchester.
6064	Paint Scheme, Erosion Resistant Coating (ERC) 2-pack Gloss, Semi-matt or Matt	The approval is for a cold curing finishing scheme for use on extension surfaces of aircraft subject to erosion.	Desoto Titanine plc, Darlington Road, Shildon, Co Durham DL4 2QP.
6067	Paint Finishing, Flexible, Defence Equipment IRR Near-Matt (2-pack) NATO Green	The approval relates to a 2-pack polyurethane finishing paint suitable for application to polypropylene oxide polymer coated aluminium. The paint has specific infra-red reflecting properties.	PPG Industries (UK) Ltd, Ladywood Works, PO Box 359, Rotton Park Street, Birmingham.
	<b>PLASTIC MATERIALS</b>		
4365	Araldite MY753/Hardener 951	Encapsulation of electrical components.	Ciba-Geigy (UK) Ltd, Plastics Division, Duxford, Cambridge CB2 4QD.
4875A	Bristol Armour, Grades BA PL 105 BA PL 95	Plastic Armour	Bristol Composites Engineering BP, Avonmouth Road, Avonmouth, Bristol BS11 9DU.
4974A	Araldite MY750/Hardener HT 972	Laminating Resin for the fabrication of fins for drop tanks for Jaguar aircraft.	Ciba-Geigy (UK) Ltd, Plastics Division, Duxford, Cambridge CB2 4QD.
4986A	Bristol Armour Grade 86F	As a light weight armour in aircraft	Bristol Composite Materials Engineering BP Avonmouth Road, Avonmouth, Bristol BS11 9DU.
6004B	Flomat Polyester/Glass Mat	For the reinforcement of the alloy skins on the removable fin for the Jaguar Drop tank.	Freeman Polymers Ltd, PO Box 8, Ellesmere Port, Wirral, Cheshire L65 4AH.
6014	Polytherm UG	PVC film for facing glass fibre mat, used for insulation in aircraft where the maximum temperature does not exceed 80°C.	Fibreglass Ltd, Insulation Division, Prescott Road, St Helens, Merseyside WA10 3TR.
6024	Fibredux 914 resin impregnated Grafil XA-S carbon fibre sheet and tape.	For aerospace structural parts	Ciba-Geigy (UK) Ltd, (Bonded Structures Division), Duxford, Cambridge CB2 4QD.
6025	Polyester Resin RP13	As a low pressure laminating resin for radomes.	Plessey Materials, Plessey Connectors Ltd, Wood Burcote Way, Towcester, Northants NN12 7JN.
6028	Polypenco Acetal Rod	For the manufacture of switch blocks on 'G' switches.	Polypenco Ltd, 83 Bridge Road East, PO Box 56, Welwyn Garden City, Herts.
6037	Plessey P10 Foam	Rigid Polyester/urethane foam characterised by its fine cell structure, with controlled mechanical and electrical properties; for use up to a maximum 200°C, used as an interlaminar foam in the construction radomes and other structural applications.	Plessey Materials, Plessey Connectors Ltd, Wood Burcote Way, Towcester, Northants NN12 7JN.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	PLASTIC MATERIALS <i>-continued</i>		
6052A	Araldite LY1927GB and Hardener HY 1927 GB	The approval relates to the use of a cold setting epoxy laminating resin, for the production of high performance composite materials in aerospace applications where the operating temperature does not exceed 100°C.	Ciba-Geigy (UK) Ltd, Plastics Division, Duxford, Cambridge CB2 4QD.
6061	Epikote 815 Resin	The approval relates to the use as a laminating resin with a suitable hardener for the fabrication of aerospace structural components fabricated by a wet lay-up technique.	Shell Chemicals (UK) Ltd, 1 Northumberland Avenue, London.
6070	Glasscloth Reinforced Polymethylmethacrylate Resin Laminate	The approval relates to the use of a glasscloth reinforced polymethylmethacrylate resin laminate intended for local edge reinforcement of aircraft transparencies where the forming temperature of the acrylic shape does not exceed 160°C.	British Aerospace Aircraft Group, Kingston Brough Division, Hamble, Southampton SO3 5NF.
6071	Polyethylene Terephthalate/Fabric Reinforced Polymethyl methacrylate Resin Laminate	The approval relates to the use of a polyethylene terephthalate (Terylene) fabric reinforced poly-methyl methacrylate resin laminate intended for local edge reinforcement of aircraft transparencies, where the forming temperature does not exceed 160°C.	British Aerospace Aircraft Group, Kingston-Brough (Division) Hamble, Southampton SO3 5NF.
	RUBBERS AND ELASTOMERS		
4069	Synthetic Rubber Sheet Hycatrol 4/20, 4/40	For flexible fuel tanks	FPT Industries Ltd, The Airport, Portsmouth, PO3 5PE.
4181	Hycatrol Sheet HP/257/20 HP/257/30 HP/257/40	ditto.	ditto.
4195	Linatex	As buffer pads, sealing strips on aircraft where resistance to oil, or high temperature is not required (Not to be used in thicknesses less than 1.2 mm.)	Wilkinson Rubber Linatex Ltd, Stanhope Road, Camberley, Surrey.
4241A	Hycatrol Mouldings HEV/4	For fittings on flexible fuel tanks.	FPT Industries Ltd, The Airport, Portsmouth PO3 5PE.
4243	Gaco SE 85 Synthetic Rubber	For rotating shaft seals in contact with fluids (not above 100°C except for mineral oil).	George Angus & Co Ltd, Fluid Seal Division, Coast Road, Wallsend, Northumberland.
4315	P561 Synthetic Rubber	For special valve assemblies in fuel systems.	FPT Industries Ltd, The Airport, Portsmouth PO3 5PE.
4319A	Rubber Compounds 0015 and 0017	For use with castor oil based hydraulic fluids.	Dowty Seals Ltd, Ashchurch, Tewkesbury, Glos. GLO20 8JS.
4873A	Gaco Grade SE70	Synthetic rubber material for rotary shaft seals for use in contact with mineral oils and greases, and ethylene glycol between -40° and +100°C.	George Angus & Co Ltd, Fluid Seals Division, Coast Road, Wallsend, Northumberland.
4883	Rubber Compound 24-870	Manufacture of accumulator bladders.	BTR Industries Ltd, Burton on Trent, Staffs.
4897A	Rubber Compound CO4/B	Manufacture of seals for use in mineral based hydraulic fluid systems between -30°C and +80°C.	Bestobell Seals Ltd, Bath Road, Slough, Berks SL 1 4DP.
4923	Gaco SV75	Manufacture of rotary garter seals for use in contact with aircraft fuels.	George Angus & Co Ltd, Fluid Seals Division, Coast Road, Wallsend, Northumberland.
4979	Rubber Material IM1452	Moulding of parts to operate between -30°C and +120°C and to be resistant to hydrocarbon fuels (gasoline and kerosine).	Dowty Seals Ltd, Ashchurch, Nr Tewkesbury, Glos. GLO20 8JS.
4988	Rubber Material 1694	Moulding of parts to operate between -30°C and +100°C, to be abrasion resistant to exhibit resistance to mineral based oils.	ditto.
4989	Rubber Material 1590/1	Moulding of parts to operate between -50°C and + 130°C, to be resistant to silicate ester based fluids.	ditto.
4998	Rubber Compound AM 80/2	Moulding of parts to operate between -50°C and +80°C and to exhibit resistance to mineral based hydraulic fluids.	ditto.



## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	<b>RUBBERS AND ELASTOMERS- continued</b>		
4999	Rubber Compound AM 0967	Moulding of parts, having good metal bonding characteristics, required to operate between -10°C and +200°C and exhibit resistance to mineral based hydraulic fluids, oils and fuels.	ditto.
6006A	Rubber Compound 2412	For moulding of parts operating between -50°C and +190°C and to exhibit resistance to phosphate ester hydraulic fluids.	Dowty Seals Ltd, Ashchurch, Nr. Tewkesbury, Glos. GLO20 8JS.
6018	Rubber Compound AM88	For seals operating between -40°C and +80°C and having a resistance to castor oil based hydraulic fluids.	ditto.
6019	Rubber Compound AM78	For seals operating between -50°C and +80°C and resistant to mineral based oils.	ditto.
6022	Silicone Rubber Angus Grade SIS 75	For fabrication of rotary seals used in contact with heavy mineral and diester based oils. Not suitable for use with petroleum based fuels, light mineral oil or grease derived from them.	George Angus Co Ltd, Fluid Seals Division, Coast Road, Wallsend, Northumberland.
6026	Rubber Compound AO109	Moulding of parts used in air and related systems; and isopropyl nitrate systems between -40°C and +100°C.	Dowty Seals Ltd, Ashchurch, Nr Tewkesbury, Glos. GLO20 8JS.
6034	Rubber Compound 640	Moulding of parts required to operate between -40°C and +80°C and to exhibit resistance to mineral based hydraulic fluids and lubricating oils.	ditto.
6035	Rubber compound 1109	Moulding of parts required to operate between -60°C and +120°C and to exhibit resistance to mineral oils and certain silicone based ester fluids.	ditto
6077	SWAM Absorber Type 908/1/05954/000 908/2/06209/000	The approval relates to the use of a magnetically loaded rubber sheet that can be used as a surface wave absorber, and as a broad band absorber over a limited range.	Plessey Materials, Wood Burcote, Towcester, Northants NN12 7JN.
	<b>SEALING MATERIALS</b>		
4058	Bostik Sealing Compound 1752	For pressure sealing of cabins, cockpits and integral tanks.	Bostik Ltd, Ulverscroft Road, Leicester LE4 6BW.
4451A	Scotchseal Industrial Adhesive 750C and 802	Pressure cabin sealing 750C for pressure gun or trowel application; 802 for brushing.	3M (UK) Ltd, Gorseinon Road, Penllergaer, Swansea, SA2 1GD.
4452	Scotchclad Fuel Resistant Coating 776	Barrier coat over sealants on interior of integral fuel tanks.	ditto.
4493	Sealing Compounds PR 1005 (Amber) PR 1005L (Red) PR 1005 BT	Barrier coats over polysulphide sealing compounds on integral fuel tanks.	PRC (UK) Ltd, Portland Road, Newcastle-upon-Tyne NE2 1BL.
4502A	Sealing Compounds PR 1221B PR 5501 (½ hour)	Dual purpose sealants for (1) Integral fuel tanks when used in conjunction with sealant top coat. (2) Pressure cabin sealing (3) Sealing the edges of polyvinyl butyral interlayered safety glass.	ditto.
4506	Sealing Compound PR 1221 BT PR 5401 (½ hour)	Dual purpose sealant of brushing consistency for (1) Pressure cabins and (2) Integral fuel tanks when used with an approved top sealing coat.	ditto.
4523	Access Door Sealant PR1301	Sealing access doors in integral tanks and other places where sealants may be broken.	ditto.
4582C	Polycast Type 2	Two part cold setting sealing and caulking compound for fillet sealing along overlapped external butt skin joints and other crevices.	Alfred Jeffrey & Co Ltd, Hall End Works, Church Lane, West Bromwich, West Midlands B17 1BN.
4590	Brushable Sealing Compound PR 1422 Class A	Brushing-type polysulphide sealant for integral tanks and pressure cabins for use at temperatures up to 145°C; sealing of root end covers of Scout and Wasp wooden tail-rotor blades.	PRC (UK) Ltd, Portland Road, Newcastle-upon-Tyne NE 2 1BL.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	SEALING MATERIALS- <i>continued</i>		
4611	Sealing Compound 1431 Type 1 and 2	A faying surface polysulphide sealant, for integral tanks and pressure cabins for use up to 145°C (of two degrees of open time and cure).	PRC (UK) Ltd, Portland Road, Newcastle-upon-Tyne NE2 1BL.
4625	Sealing Compound PR 1201Q	For sealing and potting electrical equipment.	ditto.
4626	Sealing Compound PR 720	For sealing and potting electrical equipment where a lower viscosity than PR 1201 Q (DTD900/4625) is required.	ditto
4686	Bostik Sealing Compound No 2102 Parts 1 and 2	For glazing laminated windscreens where a non-flowing material is required.	Bostik Ltd, Ulverscroft Road, Leicester LE4 6BW.
4690	Boscoprene Sealing Compounds No 2114 Filleting No 2115 Brushing	For sealing fuel tank and pressure cabins.	ditto.
4694A	Silastic 9161 RTV Rubber.	Encapsulation and/or sealing electrical components.	ditto.
4720A	Silcoset 100	Potting and encapsulation of electrical and electronic equipment. Caulking and sealing of aircraft. Fabrication of silicone parts where DTD 818 was not applicable.	Imperial Chemical Industries Ltd, (Organics Division), Stevenston, Ayrshire KA 20 3LN.
4721A	Silcoset 101	ditto.	ditto.
4778	Silcoset 105	ditto.	ditto.
4868A	Sealing Compound PR 1422 Class B	Quick repair sealant for integral fuel tanks, fuel cell cavities, and pressure cabins.	PRC (UK) LTD, Portland Road, Newcastle-upon-Tyne NE2 1BL.
4900A	Sealing Compound PR 1431T	Thixotropic compound for sealing vertical faying surfaces of integral fuel tanks pressure cabins and for use as general assembly jointing compound.	ditto.
4927	Scotchseal Industrial Adhesive 801 (Class BZ non-crazing)	Integral fuel tanks and pressure cabin sealant.	3M (UK) Ltd, Gorseinon Road, Penllergaer, Swansea, SA4 1GD.
4954A	Silane Primer 9281 for polysulphide sealants	Primer system used with two-part cold curing sealants for use in fuel tanks and pressure cabins.	Bostik Ltd, Ulverscroft Road, Leicester LE4 6BW.
6021	Sealing Compound PR 1425	For sealing aircraft windows, pressurised cabins and integral fuel tanks.	PRC (UK) Ltd, Portland Road, Newcastle-upon-Tyne NE2 1BL.
6051	Sealing Compounds 2230 and 2232 with primer M662	The approval relates to the use as a sealant for integral fuel tanks or fire walls.	Bostik Ltd, Ulverscroft Road, Leicester.
6075	Silicone Adhesive/Sealant RTV106, Primers SS4004 and SS4044	The approval relates to the use as a fire wall sealant within the temperatures range -60°C to +200°C.	Silicone Products (General Engineering Products), Silicone House, Cranfield Road, Lostock, Bolton.
6076	Silicone Adhesive Sealant RTV159	ditto.	ditto.
6092A	Polysulphide Sealant PR1750 Classes A B and C	For a two-part sealant curing by addition of an acceleration, not dependent on solvent evaporation, cured sealant has good resistance to petroleum based oils and fuels. Can be used between -53°C and 182°C.	PRC (UK) Ltd, Portland Road, Newcastle-upon-Tyne NE2 1BL.
	THREAD COMPOUNDS		
4042A	Aquadag	For thread lubrication on low-pressure aircraft oxygen systems.	Acheson Colloids Co, PO Box 12, Prince Rock, Plymouth, Devon PL4 0SP.
	MISCELLANEOUS		
4867	Emergency Markings Beta-lights	Completely sealed self-luminous source derived from a phosphor activated by Tritium gas for emergency signs in aircraft.	Saunders Roe Developments Ltd, Millington Road, Hayes, Middlesex UB3 4NB.

## APPENDIX II-continued

Approval Number	Material	Extent of Approval	Manufacturer
	MISCELLANEOUS-continued		
4931A	Coolanol 25R	Coolant for AWG11/12, Cooling systems of UK versions of McDonnell Douglas Phantom II	Monsanto Ltd, Chineham Court, Chineham, Basingstoke, Hants.
4940A	Coolanol 35	Coolant liquid in Transmitter ARI 23165.	ditto.
4993	Flutex PP3	Dielectric coolant in the high power travelling wave tube of Radar ARI 5980.	ISC Chemicals, St Andrews Road, Bristol, Avon BS11 9HP.
6032	Backing Board FPT/BB/803	For use as a backing board in conjunction with flexible self-sealing fuel cells.	FPT Industries, The Airport, Portsmouth.
6055	Fire Sleeve AE 102(FG)	The approval relates to the use as a protective fire sleeving on a varied range of flexible hose assemblies; suitable for use in designated fire zones with a temperature range -55°C to +260°C.	Aeroquip (UK) Ltd, Aeroquip Aerospace Division, Broadground Road, Lakeside, Redditch Worcs B98 8YS.

## APPENDIX III

Approval Number	Material	Extent of Approval	Manufacturer
	PROCESSES APPLIED TO METALS		
4216	Al-fin Process	For bonding aluminium and aluminium alloys to metallic materials for application involving heat dissipation, heat exchangers, protection against high temperature oxidation, and where joining by aluminium bonding is appropriate.	Wellworthy Ltd, Lymington, Hants SO4 9YE.
4395A	Solaramic process	For the treatment of piston engine exhaust systems of military aircraft.	Ferro (GB) Ltd, Ounsdale Road, Wombourne, Wolverhampton, West Midlands WV5 8DA.
4627	Deoxidine 624	For preparation of clad aluminium alloy prior to the application of the ICI alocrom process.	Imperial Chemical Industries Ltd, (Paints Division), Wexham Road, Slough, Berks SL2 5DS.
4819A	Pyroblak Black oxide treatment for steels	Process for parts which run in a maintained environment of oil or grease. The process shall not however be applied to steels of a minimum tensile strength of 90 tons/force/sq in (1400 x 10 N/m <sup>2</sup> ). Bearing steels to Spec EN/31/SI35/SI36 are excluded from this restriction.	Brent Chemicals, Ridgeway, Iver, Bucks SLO 9JJ.
6059	Tufftride TF1, TF1/AB1	Low temperature (570-580°C) salt bath nitriding process.	Keighley Laboratories, Croft House, South Street, Keighley, West Yorks.
6068	Sermetal Processes (5375, 5380, 1141, 1142, 2241, 2242)	The approval relates to the preparation of corrosion/erosion resistant coatings for use on engine components operating at temperatures not exceeding 650°C.	Sermatech (UK) Ltd, High Holborn Road, Codnor, Ripley, Derbyshire DE5 3NW.
6069	Niflor Coating process	The approval relates to the preparation of Low-friction surfaces on metal substrates.	Montgomery Plating Co., Godiva Place, Coventry.
6086A	Alloy and pure metal powders applied by detonation gun L W- 1, LW-18, LW-5, LW-15, LC-1-15, LC-1-25, LC-1-H, LDT-400 and WDT-800	The extent of the approval is for these powders, applied either by detonation gun (6086A) or a plasma process (6087A), for use where resistance to heat, wear and corrosion are required.	Union Carbide (UK) Ltd, Drakes Way, Greenbridge Industrial Estate, Swindon, Wilts.
6087A	Alloy and pure metal powders applied by Plasma Process, LCW-1, LCW-2, LC-4 and LW-11B	ditto.	ditto.
	ETCHING AND FILMING TREATMENTS		
4077A	Almecco No 100	An etchant for treatment prior to spot welding and subsequent painting of sheet aluminium, aluminium coated alloys and aluminium-manganese alloys.	Henkel Chemicals Ltd, 292-308 Southbury Road, Enfield, Middx.
4083	Pylumin Process	A filming treatment for aluminium and/or aluminium alloys; prior to painting or varnishing.	Pyene Chemical Services Ltd, Ridgeway, Iver, Bucks SLO 9JJ
4091	Alocrom 100 Process	A filming treatment for aluminium and aluminium clad aluminium alloy sheet prior to painting (approved for Naval aircraft).	Imperial Chemical Industries Ltd, (Paints Division), Wexham Road, Slough, Berks SL2 5DS.
4115	Deoxidine 202 (Refs 800-202)	An etchant for treatment of aluminium and aluminium clad alloys prior to painting.	ditto.
4292A	Almecco No 199	An etchant for treatment of aluminium and aluminium clad alloys prior to painting.	Henkel Chemicals Ltd, 292-308 Southbury Road, Enfield, Middx.
6062A	Adrox 1074	The approval relates to an etchant solution for the removal of heavy corrosion products from an aluminium or aluminium alloy surface prior to the use of a conversion coating.	Ardrox Ltd, Furlong Road, Bourne End, Buckingham SL8 5AX.
	PROCESS APPLIED TO NON-METALLIC MATERIALS		
4569	Garan Finish for Glass Fibre Tapes and Webbing	For chemical treatment of woven glass fibre tapes and webbings used as reinforcement with polyester resins.	Fothergill Cables, Summit, Littleborough, Lanes.

## APPENDIX IV

Approval No.	Material and/or Process	Page	Approval No.	Material and/or Process	Page
4018A	Silver Brazing Alloy Grade MX-18	3	4576	Glacier DX Product	3
4033	Glacier Standard Wrapped Bushes	3	4577C	Dalfratex Silica Sleaving	10
4042A	Aquadag	17	4578	LM10A Silver-Tin Solder	3
4045	Pop Rivet Filler Ryland 2313	10	4579	Araldite PZ985/HZ985 System	10
4051	Perspex Protective Lacquer F962-5005	13	4582C	Polycast Type 2	16
4058	Bostik Sealing Compounds 1752	16	4586B	Hylomar Universal Jointing Compound SQ32	11
4069	Synthetic Rubber Sheet Hycatrol 4/20, 4/40	15	4590	Brushable Sealing Compound PR 1422 Class A	16
4077A	Almecco No 100	19	4603	Silver Brazing Alloy MN2	3
4079A	Cellon Heat-Resisting Paint E3678/30L	13	4606B	Sintermatt-MA-190	4
4081C	Lockheed No 22 Fluid	10	4611	Sealing Compound 1431 Type 1 and Type 2	17
4083	Pylumin Process	19	4613	GEC-Heavy Alloy	4
4088A	Durameg Enveloping Varnish	13	4625	Sealing Compound PR 1201 Q	17
4091	Alocrom 100 Process	19	4626	Sealing Compound PR 720	17
4093A	Aerolac Metal Protection Varnish	13	4627	Deoxidrine 624	19
4102A	Non-Inflammable Flexible Lacquer	13	4630A	Rocol MX-33	12
4115	Deoxidine 202 (Refs 800-802)	19	4639	Dag Dispersion 580	12
4123A	Rockfast non-inflammable Dope RD 1417	13	4645A	Non-Hardening Jointing Compound JC6	11
4124A	High Temperature resisting Paint No 2845	13	4646B	Stoving Enamel FSE 66 and Accelerator AC.1	13
4134B	Plastic Hermetite Compound (Heavy, medium and light grades)	10	4647	Molydag 709	12
4142	Tensol Cement No 3	7	4648A	Moly VI and Bond 444	12
4165A	Dulux Red Anti-tracking Varnish, Air Drying F338-2026 (spraying), F338-3510	13	4650A	Antifret Primer LR 8123	13
4179	Prestik and Prestikol sealing compounds 5602 and 5603	10	4655E	Stellite Alloy No SF1	5
4181	Hycatrol Sheet HP/257/20, HP/257/30, HP/257/40	15	4656B	Stellite SF60	5
4195	Linatex	15	4660C	Scuff-resistant finish VA 12 RD 10 FR	13
4216	A1-Fin Process	19	4663A	Scotchcal Brand, Fluorescent Film 3484, Series and 3960, Scotchcal Edge, sealer	8
4241A	Hycatrol Mouldings HEV/4	15	4669	Moly Paul polypaste 300 (Air)	12
4243	Gaco SE 85 Synthetic Rubber	15	4677A	Emralon 810	12
4254A	Bostik Primer 9252	13	4679A	Bostik 2401, Bostikure D and Bostikure 9252	7
4258A	Jov Wadpol Polish Type HR	13	4684	Frin Fretting Corrosion Inhibitor	9
4272A	Ferrobestos LA37	3	4686	Bostik Sealing Compound No 2102-5 Parts 1 and 2	17
4273	Oilite Superload Grade A	3	4690	Boscoprene Sealing Compounds No 2114 Filletting No.2115 Brushing	17
4274	Oilite Superload Grade B	3	4694A	Silastic 9161 RTV Rubber	17
4275	Oilkite Superload Grade C	3	4698	Scotchgrip Vinyl Adhesive 1099	7
4292A	Almecco No 199	19	4703A	Avro Aluminium Honeycomb	4
4301A	Celloseel	11	4705A	Tensol No 70	7
4315	P561 Synthetic Rubber	15	4712A	Wimet Grade W	5
4319A	Rubber Compounds 0015 and 0017	15	4713	Araldite SY105 Hardener HY953F System	7
4322	'Tico' Adhesive	7	4717	Glacier Standard DQ	3
4344	High Temperature Jointing Compound Silkolene Grade 762	11	4720A	Silcoset 100	17
4348	Boscoprene cement No 2100 Parts 1 and 2	10	4721A	Silcoset 101	17
4362	Redux 120 Adhesive	7	4732A	Stellite Alloy No 1 Rod and Castings	5
4365	Araldite MY753/Hardener 951	14	4733A	Stellite Alloy No 6 Rod and Castings	5
4386A	Arclone Fluid	9	4734A	Stellite Alloy No12 Rod and Castings	5
4387B	Flexible Hermetite 1326B	11	4735A	Stellite Alloy No 3 Castings	5
4395A	Solaramic Process	19	4742B	Chemical Resistant Stoppers: (a) F581-2016	10
4397A	Aeroweb Types GO and GI	10		F581-2017	10
4399	Prodor-Glas System	13	4749A	Baker 26K Iridium Drawn Wire	4
4433A	Telcon Cu-Be 250	4	4752A	Moly Paul Moly- OTC-Bond	12
4434B	J111185 Heat-Hardening Adhesive	11	4754	Moly Paul Silicone Paste 500 (Air)	12
4438A	Jove Wadpol Polish Type K2	13	4756B	Stellite SF6	5
4449B	Durameg Varnish AS 5305	13	4757B	Stellite SF12	5
4451A	Scotchseal Industrial Adhesive 750C and 802	16	4762A	Clear Lacquer TVZ-119 and Activator TVZ-121	13
4452	Scotchclad Fuel Resistant Coating 776	16	4764E	Aeroweb Aluminium Alloy Honeycombe Core Types NS3, 3003, 5052, 5056	4
4454B	Holfos, BOHT Bronze	3	4766A	Zinc Chromate Pigmented Silicone Grease LR4871	11
4455C	Dalfratex Batt	10	4769A	Silver Brazing Alloy Grade LX13	3
4483	Scotchgrip Industrial Adhesive 847	7	4770A	Silver-bearing, soft solder Grade ST400	3
4485	Paint System, Matt Black, Spraying	13	4771A	Silver Brazing Alloy Grade MX-18 plus (Melt-Esi Plus)	3
4488A	Jointing Compound JC 5A	11	4773A	Silver-bearing, soft solder Grade SXZ 500	3
4493	Sealing Compounds PR 1005 (Amber), PR 1005L (Red) PR 1005 BT	16	4775A	Silver-bearing, soft solder Grade SLT 200	3
4502A	Sealing Compounds PR 1221B, PR 5501 (½ hour)	16	4778	Silcoset 105	17
4503D	Defratex Silica Cloths	10	4782A	Stellite Grade 4 Casting Alloy	5
4506	Sealing Compound PR 1221 BT, PR 5401 (½ hour)	16	4784A	Stellite SF20	5
4515A	Lacquer for Rubber	13	4785	Stellite Grade F Hard-facing Rod	5
4518A	Bound Brook Porous Bronze	3	4787	Chemical Resistant Clear Lacquer F292-4 Activator F273-5077, Thinners 850-805	13
4523	Access Door Sealant PR 1301	16	4788	'Sprabond Wire'-NS	5
4527D	Dalfratex Silica Yarn and Cloth	10	4789	Metco Powder 16C	5
4535A	Savbit No 1 Soft Solder	3	4795A	Colmonoy No 4	5
4544D	Super Twistle Joint	11	4796	Colmonoy No 5	5
4548	PR Void Filling and anti-chafing compound	10	4797	Colmonoy No 6	5
4549A	Celloseel QH	11	4801B	Metcoloy 1-NS Wire	5
4554A	Silicone Varnish MS 997	13	4802B	Esso Andok 260	12
4562D	Dalfratex Silica Tape	10	4805	Hidurax Special	3
4564	Evostik Impact Adhesive 528	7	4811	Deva Metal Sintered Bearing Material Ref BH 1/6	3
4566	Araldite AV121/Hardener HY951	11	4812	Deva Metal Sintered Bearing Material Ref BH 1/8	3
4569	Garan Finish for Glass Fibre Tapes and Webbing	19	4813	Deva Metal Sintered Bearing Material Ref BH 1/10	3
4575A	Glacier DU (Bearings) (Standard Product)	3	4814	Deva Metal Sintered Bearing Material Ref BL 1/8	3

## APPENDIX IV—continued

Approval No.	Material and/or Process	Page	Approval No.	Material and/or Process	Page
4815	Deva Metal Sintered Bearing Material Ref BL 1/10	3	4987	Uniflon R Bearing Liner	4
4816	Deva Metal Sintered Bearing Material Ref BL 1/14A	4	4988	Rubber Material 1694	15
4819A	Pyroblak Black Oxide treatment for steels	19	4989	Rubber Material 1590/1	15
4824A	Stellite Grade X40 (Castings and Forgings)	4	4990	Rocol MHT Grease	12
4825	Deva Metal Sintered Bearing Material Ref B 1/6	4	4993	Flutec PP3	18
4827	Deva Metal Sintered Bearing Material Ref B 1/8	4	4998	Rubber Compound AM 80/2	15
4829	Deva Metal Sintered Bearing Material Ref B 1/7	4	4999	Rubber Compound AM 0967	16
4849A	Matthey 3 Chromium-Copper Alloy	4	6000A	Paint Remover Ardrox 29 and Seal 29	9
4854	Deva Metal Sintered Bearing Material Ref FH 1/8	4	6002	Heat-resisting ES Coating PL 205	14
4865	Metco Nickel-Clad Aluminium Powder 404	5	6003B	Thread Locking sealants Nos 222, 242, 638	7
4867	Emergency Markings Beta-lights	17	6004B	Flomat Polyester/Glass Mat	14
4868A	Sealing Compound PR 1422 Class B	17	6005	Fibreglass, Aircraft Insulation	11
4869A	Alloy 625	5	6006	Rubber Compound 1333	16
4870B	Heat resisting Epoxy scheme for Engines (Chromated)	13	6008D	Permabond 100 Series, Adhesives and Associated Activators	7
4872A	Mobilex 47	12	6009	Alloy 625R	5
4873A	Gaco Grade SE70	15	6011	X-140 Bearing Material	4
4875A	Bristol Armour, Grades BA PL 105, BA PL 95	14	6013	Paint Remover Dasic D23 and D23V	9
4877A	Hellerine M	12	6014	Polytherm UG	14
4881D	Skydrol 500B	10	6015	X-170 Bearing Material	4
4883	Rubber Compound 24-870	15	6016	Triplex Ten-Twenty Glass	10
4888A	Silver, Cadmium Oxide Grade GD 25	5	6017	Process for the toughening of structural glass	10
4890A	Silver, Cadmium Oxide Grade GD 10	5	6018	Rubber Compound AM88	16
4891A	Silver Graphite Grade GC 10	5	6019	Rubber Compound AM78	16
4892A	Silver Nickel Grade GNI	5	6021	Sealing Compound PR 1425	17
4897A	Rubber Compound C04/B	15	6022	Silicone Rubber Angus Grade SIS 75	16
4899	Ardrox 2601 (Application Cleaners)	9	6023	Protective Lacquer (Parts A and B) FPT/BC/13	14
4900A	Sealing Compound PR 1431T	17	6024	Fibredux 914 Resin Impregnated Grafil XA-S Carbon Fibre Sheet and tape	14
4902A	Fiberslip B30 Laminate	4	6025	Polyester Resin RP13	14
4903A	Fiberslip B40 Laminate	4	6026	Rubber Compound A 0109	16
4904A	Striplene 300	9	6027	Glass Fibre Insulation Batting	11
4907	Kilfrost ABC De-icing Compound	9	6028	Polypenco Acetal Rod	14
4909	Nebar, Standard Grade	11	6030A	Dalfratex Silica Rope	11
4910A	Beacon Q330 Grease	12	6031	Araldite AV100/HV 100 system	7
4911	Nebar, HP Grade	11	6032	Backing Board FPT/BB/803	18
4913A	Aero Shell Fluid 2XN	12	6033	Tensol No 12	7
4914A	Rocol GG 17866 Grease	12	6034	Rubber Compound 640	16
4918A	Polurethane Walkway Finishing Paint FE50W	13	6035	Rubber Compound 1109	16
4919B	Epoxy Primer (lead-free)	13	6036	Hardener XD716	7
4923	Gaco SV75	15	6037	Plessey P10 Foam	14
4925B	Paint, Primer Epoxide Strontium Chromate, Stoving Ref 588/0066 and Thinners 485/0165	13	6038	Flexible Polyurethane paint (PU 66)	14
4927	Scotchseal Industrial Adhesive 801 (Class BZ non-crazing)	17	6039	Filmed Glass Fibre Insulation	10
4929A	Haystillite Alloy 52	5	6040	Araldite 2001 Adhesive System	7
4931A	Coolanol 25R	18	6041	Araldite 2002 Adhesive System	7
4933A	Fiberslip B60 Laminate	4	6042	Araldite 2003 Adhesive System	7
4939A	Kilfrost W WF/MOD2	9	6043	Araldite 2004 Adhesive System	7
4940A	Coolanol 35	18	6044	Araldite 2005 Adhesive System	7
4943A	High Heat Resisting Stoving Enamel Aluminium PL 101 E3746RZ	14	6046	Araldite 2007 Adhesive System	8
4948A	Metco Nickel-Aluminium Wire 405-NS (Flame Spraying)	5	6048	Ferobestos LF10, LF103, LF1037	4
4949A	Metco Nickel-Aluminium Powder 450-NS (Flame Spraying)	5	6050	Dynacrylic Sheet	10
4950A	Metco 18C-NS Powder (Flame Spraying)	5	6051	Sealing Compounds 2230 and 2232 with primer M662	17
4951A	Metco 12F-NS Powder (Flame Spraying)	6	6052A	Araldite LY 1927 GB and Hardener HY 1927 GB	15
4953B	Triplex Ten-Twenty Glass	10	6053	Paint Systems Elastomeric Polyurethane (two-part)	14
4954	Silane Primer 9281 for polysulphide sealants	17	6054	Wellseal RS 2965 Non-Flammable Engine Jointing Compound	11
4958	Deva Metal Sintered Bearing Material Ref BL 4/6	4	6055	Fire Sleeve AE 102 (FG)	18
4959A	Dry Film Lubricant PL94 (Formula E3699)	12	6056	Chemglaze	14
4961	Self Adhesive Emblems and Markings, Scotchcal Film No 4690 with Edge Sealer	8	6057	Arma G-213 (Formula 213/80) Grease	12
4962A	Adhesive S1005 system	7	6059	Surface Treatment of Ferrous Parts—using the Tuff-tride TF1, TF1/AB1 Process	19
4964A	Fiberslip B70 Laminate	4	6060A	Loctite 648 and Activator TCA	8
4966B	Hydrotype 1842B	12	6061	Epikote 815 Resin	15
4967	Protective Lacquer FPT/N27	14	6062A	Ardrox 1074	19
4968A	Paint Remover Heavy Duty, Hot Bath Ardrox 26HT	9	6064	Paint Scheme, Erosion Resistant Coating (ERC) two-pack Gloss, Semi-Matt or Matt	14
4969	Self Adhesive Emblems and Markings, Scotchcal Film No 3650 with Edge Sealer	8	6065	Anti-seize compound for use on components in air turbines	12
4970	Durasint Grade S73	6	6067	Paint Finishing, Flexible, Defence equipment IRR Near-Matt, two-pack, NATO Green	14
4971	Mastinex Jointing Compound AF5/34A (5982N3010)	11	6068	Sermetal Process (5375, 5380, 1141, 2241, 2242)	19
4972	Rocol MV 4	12	6069	Niflor Coating Process	19
4973	Araldite SV409 and Polyamide 140	7	6070	Glasscloth Reinforced, Polymethyl-methacrylate Resin Laminate	15
4974A	Araldite MY750 Hardener HT 972	7/14	6071	Polyethelene Terephthalate Fabric Reinforced, Polymethyl-methacrylate Resin Laminate	15
4976	Rain Erosion System F231-949/F210-747 with Primer F292-4(GRP) and F580-2010/F580-2009 (Metals)	14	6072	Transparent Polyurethane Film Tape, Scotch Tapes Nos 8561, 8591	8
4979	Rubber Material IM 1452	15	6073	PL 239 (Formula 3862 x 9010) Dry Film Lubricant	12
4980	Rocol Grease MX-44	12	6074	E32 Structural Epoxy Adhesive (two-part)	8
4981A	Aviation oil S8350	12			
4982	Nebar, Jointing Material LRC 631	11			
4986B	Bristol Armour Grade 86F	14			

## APPENDIX IV—continued

<i>Approval No.</i>	<i>Material and/or Process</i>	<i>Page</i>	<i>Approval No.</i>	<i>Material and/or Process</i>	<i>Page</i>
6075	Silicone Adhesive Sealant RTV 106, Primers SS4004 and SS4044 . . . . .	17	6097	Loctite Activators N and TCA . . . . .	8
6076	Silicone Adhesive Sealant RTV 159 . . . . .	17	6098	Raychem Adhesive S1125 . . . . .	8
6077	SWAM, Type 908/1/06209/000 . . . . .	16	6100	Hoybide Tungsten Carbides . . . . .	6
6079	Rocol Fomblin YR Fluid . . . . .	12	6101	Plansee Tungsten Carbides . . . . .	6
6080	Rocol Fomblin OT20 Grease . . . . .	12	6102A	Permabond Flexon 241 with Initiator No 1 . . . . .	8
6081	Rocol Fomblin RT15 Grease . . . . .	12	6103	Assigned—not agreed at time of print . . . . .	
6082	E11 Epoxy Adhesive . . . . .	8	6104	Assigned—not agreed at time of print . . . . .	
6084	Sintered Ceramic Materials, Sintox Hylumina . . . . .	10	6105	Stag Polymers Double Bond Putty and Cream . . . . .	10
6086A	Alloy and Pure Metal Powders, applied by Detonation Gun LW-1, LW-1B, LW-5, LW-15, LC-1-11m LC-1-15, LC-1-25, LC-1-H, LDT-400 and LDT-800 . . . . .	19	6106	Fasson Stoneguard 2000 . . . . .	9
6087A	Alloy and Pure Metal Powders, applied by Plasma Process LCN-1, LCN-2, LN-2, LC-4 and LW-11B . . . . .	19	6107	Stag Polymers and Sealants Casting Compound RS 2958 Parts A and B . . . . .	12
6088	EO 4 Toughened Epoxide Adhesive (two-part) . . . . .	8	6108	FasCal 6200 Fluorescent Vinyl Film . . . . .	9
6092A	Polysulphide Sealant PR 1750 Classes A, B and C . . . . .	17	6109	FasCal 900 Vinyl Marking Film . . . . .	9
6093	ESP 110, Epoxy Adhesive, Single Part . . . . .	8	6110	Assigned—not agreed at time of print . . . . .	
6095	Chemlok 236A Bonding Agent and Chemlok 205 Primer . . . . .	8	6111		
			6112		
			6113		



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