

Chapter 3 Annex ATABLE OF MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSIONIntroduction

This table has been compiled mainly from the fuller list of materials in the 'Vocabulary of RAF equipment' AP 1086. It also incorporates information from other sources including Def Stan 01-5/5-HMSO Fuels, Lubricants and Associated Products. Inclusion in this table does not authorise the use of materials which are not specified in aircraft publications, or in repair schemes. Similarly, exclusion from this table does not prevent the use of materials if specified in such documents.

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION

Material	Sect/Ref	Application	Further information
Abrasive AlOX 80/120 120/150	33J/2202935 4A/2141449	Corrosion removal by Vacu Blasting.	AP 119G-0129-1
Abrasive glass bead 45/75 Size L	33J/2221883	Corrosion removal by Vacu Blasting.	AP 119G-0129-1
Abrasive paper waterproof	33J/1293933, 1293934, 2203673	Corrosion removal and polishing.	BS 872C
Acid chromic crystals	33C/2205032	Neutralisation of spillage from alkaline batteries.	AP 119A-0601-0 Chap 5
Acid, hydrofluoric	63G/2200597	With nitric acid for pickling titanium and titanium alloys.	
Acid, nitric, commercial	33C/2200826	With hydrofluoric as above. With sodium dichromate for passivating stainless steel. With Alocrom 1200 for protection of aluminium or magnesium alloys. Cleaning capillary brushes (mercury removal).	DEF 52
Acid, sulphuric commercial	33C/2200827	Cleaning copper and alloys. Pre-treating magnesium alloys.	Def Stan 68-14/1 AP 119A-0601-0 Chap 5

(continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Alocrom 1200	33C/1835	Restoring protection on aluminium and magnesium alloys.	DTD 900/4413
Ardrox 1074	0473-2201932	Corrosion removal (RN use).	
Barrier Cream No 8	33D/2241197	Skin protection against detergents and chemicals.	
Barrier Cream No 9	33D/2241198	Skin protection against solvents, resins and dyes.	
Barrier Cream No 11	33D/2241199	Skin protection against oils and greases.	
Chromate, calcium or strontium	33C/2244594	In cartridge or capsule form for corrosion inhibition.	DTD 495 AP 100B-01 Order No. 1700
Compound cleaning	33D/2204399	Aircraft cleaning. Removal of micro-organic deposits from fuel tanks.	DTD 5507B
Compound cleaning heavy duty	33D/2240455	Aircraft cleaning where DTD 5507B is ineffective.	DTD 5600
Compound cleaning guns	33D/2242059	Removal of carbon deposits from gun mechanisms.	
Compound jointing JC5A	33H/2247400	Sealing riveted joints.	DTD 900/4488
Compound jointing Pigmented varnish	33H/2202080 33H/2202110	General use in static joints.	DTD 369A
Compound sealing chromated (celloseal)	33H/2202476	Sealing dissimilar metal joints where resistance to fuel is required.	DTD 900/4301
Compound sealing PR1301	33H/2204264 33H/2242517	Sealing dissimilar metal joints and filleting.	DTD 900/4523

(continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Alocrom 1200	33C/1835	Restoring protection on aluminium and magnesium alloys.	DTD 900/4413
Ardrox 1074	0473-2201932	Corrosion removal (RN use).	
Barrier Cream No 8	33D/2241197	Skin protection against detergents and chemicals.	
Barrier Cream No 9	33D/2241198	Skin protection against solvents, resins and dyes.	
Barrier Cream No 11	33D/2241199	Skin protection against oils and greases.	
Chromate, calcium or strontium	33C/2244594	In cartridge or capsule form for corrosion inhibition.	DTD 495 AP 3158 Vol 2 Leaflet H34
Compound cleaning	33D/2204399	Aircraft cleaning. Removal of micro-organic deposits from fuel tanks.	DTD 5507B
Compound cleaning heavy duty	33D/2240455	Aircraft cleaning where DTD 5507B is ineffective.	DTD 5600
Compound cleaning guns	33D/2242059	Removal of carbon deposits from gun mechanisms.	
Compound jointing JC5A	33H/2247400	Sealing riveted joints.	DTD 900/4488
Compound jointing Pigmented varnish	33H/2202080 33H/2202110	General use in static joints.	DTD 369A
Compound sealing chromated (celloseal)	33H/2202476	Sealing dissimilar metal joints where resistance to fuel is required.	DTD 900/4301
Compound sealing PRL301	33H/2204264 33H/2242517	Sealing dissimilar metal joints and filleting.	DTD 900/4523

(continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Compound sealing PR1431 Type 1	33H/2245049	Sealing dissimilar metal joints.	DTD 900/4611
Deoxidine 202	33C/2204346	Pretreatment of aluminium and alloys prior to painting.	DTD 900/4115 AP 119A-0601-0 Chap 5
Deoxidine 624	33C/2244944	Pretreatment of aluminium prior to applying Alocrom 1200.	DTD 900/4627 AP 119A-0601-0 Chap 5
Flap wheel	3D/4122-5	Corrosion removal.	
Grease XG-271 (NATO G-382)	34B/9100510	General purpose, bearings, internal combustion engine accessories.	Def Stan 01-5/-HMSO
Grease XG-284 (NATO G-366)	34B/9439321	Helicopter general purpose. Not high speed or high temperature.	Def Stan 01-5/-HMSO
Grease XG-287	34B/2241793	Extreme pressure (EP) uses ie gears etc. Not to be used on rubbers (natural or synthetic) or plastics.	Def Stan 01-5/-HMSO
Grease XG-293	34B/2241797	General purpose, wheel bearings, plain bearings, temperature range -55°C to +175°C.	Def Stan 01-5/-HMSO
Grease XG-315 (NATO G-394)	34B/2201438	Metal/rubber lubrication. May cause certain rubbers and plastics to shrink and harden.	Def Stan 01-5/-HMSO
Grinding points	3D/various	Corrosion removal.	
Grinder fan rotary	3D/4083-6	Corrosion removal.	
Indicator BDH universal (Liquid)	63G/2247110	Testing for acidity or alkalinity (pH).	
Indicator universal (Paper)	33C/2243416	pH range 6.5 to 10.0.	

(continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Indicator Litmus Red/Blue	33C/2202225/ 2243602	Testing for acidity or alkalinity.	
Oil OM-12 (NATO O-142)	34B/9438712	General purpose light lubrication at low temperatures.	Def Stan 01-5/-HMSO
Oil OM-150	34B/9100550	Low temperature lubrication of hinges and open bearings.	Def Stan 01-5/-HMSO
Oil OX-14 (NATO O-147)	34B/2246128	Lubrication of instruments controls etc. Not suitable for use on rubbers (natural or synthetic).	Def Stan 01-5/-HMSO
Oil OX-27 (NATO O-156)	34B/2251747	Certain aircraft turbine engines and auxiliary equipment. Helicopter transmissions. Not suitable for use on rubbers (natural or synthetic).	Def Stan 01-5/-HMSO
Pad abrasive (Scotchbrite)	33J/2202953	Corrosion removal.	
Paints priming and finishing	33A,/33B/ various	Aircraft exteriors and other surfaces.	AP 119A-0601-0 Chap 4
Paint acid resistant primer	33A/9436190	Surface finish for areas liable to acid damage.	DEF-1402
Finish (black)	33A/9436188		
Paper anti-corrosion (VPI/CHC)	32B/12255303	Preserving metallic items in storage.	AP 100C-20 AP 830
Paper grease- resisting	32B/1255307	Wrapping articles for storage.	AP 830 DEF 1316
Paper waxed	32B/9432405	Masking areas or wrapping articles.	DEF 1242
PVC grease-resistant	32B/9150963	Wrapping articles.	BS 1763

(continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Indicator Litmus Red/Blue	33C/2202225/ 2243602	Testing for acidity or alkalinity.	
Oil OM-12 (NATO O-142)	34B/9438712	General purpose light lubrication at low temperatures.	Def Stan 01-5/-HMSO
Oil OM-150	34B/9100550	Low temperature lubrication of hinges and open bearings.	Def Stan 01-5/-HMSO
Oil OX-14 (NATO O-147)	34B/2246128	Lubrication of instruments controls etc. Not suitable for use on rubbers (natural or synthetic).	Def Stan 01-5/-HMSO
Oil OX-27 (NATO O-156)	34B/2251747	Certain aircraft turbine engines and auxiliary equipment. Helicopter transmissions. Not suitable for use on rubbers (natural or synthetic).	Def Stan 01-5/-HMSO
Pad abrasive (Scotchbrite)	33J/2202953	Corrosion removal.	
Paints priming and finishing	33A,/33B/ various	Aircraft exteriors and other surfaces.	AP 119A-0601-0 Chap 4
Paint acid resistant primer	33A/9436190	Surface finish for areas liable to acid damage.	DEF-1402
Finish (black)	33A/9436188		
Paper anti-corrosion (VPI/CHC)	32B/12255303	Preserving metallic items in storage.	AP 100C-20, AP 830
Paper grease-resisting	32B/1255307	Wrapping articles for storage.	AP 830 DEF 1316
Paper waxed	32B/9432405	Masking areas or wrapping articles.	DEF 1242
Polish metal	33B/2201742	Polishing high-stress areas after corrosion removal.	Def Stan 79-9/1
PVC grease-resisting	32B/9150963	Wrapping articles.	BS 1763 (continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Polythene sheet 65u x 1275mm x 353m 250u x 1275mm x 87m 125u x 1275mm x 174m	32B/ 1255327 2202337 2202338	Masking areas.	DEF 1317
Protective PX-1 (NATO C-614)	34B/9100479	On mechanical components. Short term soft film easily removed. Green in colour.	Def Stan 01-5/-HMSO
Protective PX-7 (NATO S-743)	34B/9100488 34B/9432033	Battery terminals, certain mechanism. Soft petrolatum.	Def Stan 01-5/-HMSO
Protective PX-10	34B/9100491	Water displacing fluid leaving a short term protective film. De-watering prior to application of PX-32.	Def Stan 01-5/-HMSO
Protective PX-13 (NATO C-613)	34B/9100497	Preservation of aircraft engine cylinder bores. Petroleum wax, inhibitors and additives in mineral oil and petroleum spirit.	Def Stan 01-5/-HMSO
Protective PX-24 (NATO C-634)	34B/2244966	Water displacing fluid leaving a protective film.	Def Stan 01-5/-HMSO
Protective PX-26 (NATO C-635)	34B/2202697	Corrosion preventive oil for aircraft hydraulic systems during storage.	Def Stan 01-5/-HMSO
Protective PX-27 (NATO C-615)	34B/2250849	Corrosion preventive oil for aircraft piston engines and certain helicopter gearboxes during storage.	Def Stan 01-5/-HMSO
Protective PX-28	34B/1559	Underseal. Ground use only - MT, GSE. (Superceded by PX32 for aircraft use).	Def Stan 01-5/-HMSO

(continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Protective PX-29	34B/2251759	De-watering and corrosion inhibition of low voltage electrical equipment (up to 120V).	Def Stan 01-5/-HMSO
Protective PX-32	34B/2253835	Protection of aircraft structures.	Def Stan 01-5/-HMSO
Removers paint	33B/various	Removal of paint finishes.	AP 119A-0601-0 Chap 5
Sodium bicarbonate	33C/2101956	Neutralising acid spillages.	
Sodium dichromate	63G/2200971	With nitric acid for the passivation of stainless steel.	
Solvent brushwash	33B/9433046	Cleaning surfaces before or after paint removal.	AP 119A-0601-0 Chap 5
Solvent, naptha	33C/2246152	With white spirit as solvent for removing oil, grease and PX's.	AP 119A-0512-1
Spirit, methylated, industrial	34D/2200985	Thinning Deoxidine 202.	BS 3591
Spirit white (NATO S-752)	34D/9427564	With naptha as solvent for removing oil, grease and PX's.	BS 245
Tape masking	34B/9433238 34B/9437001	For masking sound areas.	BS J11
Trichloroethane 1:1:1	33D/2201949 33D/2246858 (Genklene)	Cleaning electronic equipment. Removal of PX's. Degreasing.	AP 119A-0512-1 AP 3158 Vol 2 Leaflet H24
Toluene	33C/2200760	Degreasing.	AP 119A-0512-1 BS 805/1
Tyco Wheel	3D/5193692	Corrosion Removal.	
Wool aluminium grades 4 and 6	33J/2203052 33J/2203054	Cleaning light alloy surfaces.	

(continued)

TABLE 1 MATERIALS USED IN THE PREVENTION AND TREATMENT OF CORROSION
(continued)

Material	Sect/Ref	Application	Further information
Wool steel	33J/1293617 33J/2203021 33J/2203022	Cleaning steel and copper.	
Xylene	63G/2200768 34D/221	Bench top cleaning processes for flight instruments and avionics equipment (Canada Balsam),	BS 458 AP 119A-0512-1