

FRENCH AVIATION SPECIFICATIONS

Scope of list

This list covers French aviation specifications for aviation fuels, lubricants and allied products. The equivalent British and American specifications can be found elsewhere in this guide.

French specifications are being converted from Normes AIR (issued formerly by Delegation Generale pour l'Armement) to DCSEA (issued by Service des Essences des Armées). Since 1997, SEA has been responsible for writing these specifications.

Norme AIR have all been downgraded as non-suitable for new design. Nevertheless, they can still be used if there is no replacement specification.

According to SEA policy, it is no longer essential for a product to be manufactured in France to be approved to the French specification, either Norme AIR or DCSEA.

French Specification	NATO Code	Product and Application	AeroShell Grade
AIR 1501 (Inactive)	C-614	Corrosion protective	AeroShell Compound 02
AIR 1502	C-629	Corrosion protective	-
AIR 1503/B Type A	C-615	Piston engine storage oil	-
AIR 1503/B Type B Concentrate (Inactive)	C-608	Piston engine storage oil	AeroShell Fluid 2XN
AIR 1503/B Type B (Inactive)	C-609	Piston engine storage oil	AeroShell Fluid 2F
AIR 1504/B	C-610	Turbine engine corrosion preventive - superseded by DCSEA 510/A	-
AIR 1506/B (Obsolete)	C-635	Preservative mineral hydraulic fluid of improved cleanliness - superseded by DCSEA 535/A	AeroShell Fluid 71
AIR 3401/1 Grade 80/87 (Obsolete)	F-12 (Obsolete)	Aviation gasoline - Grade 80/87 (Obsolete)	-
AIR 3401/1 Grade 100/130 (Obsolete)	F-18	Aviation gasoline - Grade 100/130 Low Lead - superseded by DCSEA 118/B	Shell AVGAS 100LL
AIR 3401/1 Grade 115/145 (Obsolete)	F-22 (Obsolete)	Aviation gasoline - Grade 115/145 (Obsolete)	-
AIR 3404/C Grade F-43 (Obsolete)	F-43 (Obsolete)	Aviation turbine fuel - high flash type - superseded by DCSEA 144/A	-
AIR 3404/C Grade F-44 (Obsolete)	F-44	Aviation turbine fuel - high flash type with fuel system icing inhibitor - superseded by DCSEA 144/C	Shell JP-5
AIR 3405/D Grade F-34 (Obsolete)	F-34	Aviation turbine fuel - kerosine type with fuel system icing inhibitor - superseded by DCSEA 134/C	Shell JP-8
AIR 3405/D Grade F-35 (Obsolete)	F-35	Aviation turbine fuel - kerosine type - superseded by DCSEA 134/C	Shell Jet A-1 Shell AeroJet*
AIR 3407/B (Inactive)	F-40	Aviation turbine fuel - wide cut type with fuel system icing inhibitor	-
AIR 3511/A	O-147	Low volatility aircraft instrument and general purpose oil	AeroShell Fluid 12
AIR 3512/A	O-138	Mineral turbine engine oil	-

French Specification	NATO Code	Product and Application	AeroShell Grade
AIR 3513 (Inactive)	-		-
AIR 3514	O-150	Both AIR 3513 and AIR 3514 are very specialised. French Specifications required for a limited number of domestic applications. AIR 3513 specified a 3 mm ² /s synthetic oil and was originally covered by NATO Code O-148. By 1970 AIR 3513 was superseded by AIR 3514. Various AeroShell synthetic turbine oils are approved by brand name for the majority of engines for which AIR 3514 is specified.	-
AIR 3515/B	O-135	3 mm ² /s mineral turbine engine oil	AeroShell Turbine Oil 3
AIR 3516/A	O-133	2 mm ² /s mineral turbine engine oil	AeroShell Turbine Oil 2
AIR 3517/A	O-159	7.5 mm ² /s synthetic turbine engine oil	AeroShell Turbine Oil 750
AIR 3520/B Grade H-515 (Obsolete)	H-515	Mineral hydraulic fluid of improved cleanliness - superseded by DCSEA 415/A	AeroShell Fluid 41
AIR 3520/B Grade H-520 (Obsolete)	H-520	Mineral hydraulic fluid - superseded by DCSEA 415/A	AeroShell Fluid 41 AeroShell Fluid 4
AIR 3525/B (Obsolete)	O-155	Extreme pressure oil for gearboxes - superseded by DCSEA 255/A	AeroShell Fluid 5M-A
AIR 3560/D Grade SAE 30 (Inactive)	O-113 (Obsolete)	Piston engine oil	AeroShell Oil 65
AIR 3560/D Grade SAE 40 (Inactive)	O-115 (Obsolete)	Piston engine oil	AeroShell Oil 80
AIR 3560/D Grade SAE 50 (Inactive)	O-117 (Obsolete)	Piston engine oil	AeroShell Oil 100
AIR 3565/A	S-743	Soft film protective	-
AIR 3570 Grade SAE 40 (Inactive)	O-123 (Obsolete)	Ashless dispersant piston engine oil	AeroShell Oil W80 AeroShell Oil W80 Plus*
AIR 3570 Grade SAE 50 (Inactive)	O-125 (Obsolete)	Ashless dispersant piston engine oil	AeroShell Oil W100 AeroShell W100 Plus*
AIR 3570 Grade SAE 60 (Inactive)	O-128 (Obsolete)	Ashless dispersant piston engine oil	AeroShell Oil W120
AIR 3634	C-634	Corrosion preventive compound, water displacing - superseded by DCSEA 534/A	-

AIR 3651/A (Methanol) (Inactive)	S-747	Methanol for use in methanol/water mixtures	-
AIR 3651/A (Water) (Inactive)	S-1739	Demineralsised water	-
AIR 3651/A (60/40) (Inactive)	S-1741 (Obsolete)	Methanol/water mixture	-
AIR 3651/A (50/50) (Inactive)	S-1742 (Obsolete)	Methanol/water mixture	-
AIR 3651/A (44/56)	S-1744	Methanol/water mixture	-
AIR 3652/B Grade S-748 (Obsolete)	S-748 (Obsolete)	Fuel system icing inhibitor	-
AIR 3652/B Grade S-1745 (Obsolete)	S-1745	High flash fuel system icing inhibitor for aviation turbine fuel (diethylene glycol monomethyl ether) - superseded by DCSEA 745/A	-
AIR 3655/A	S-738	De-icing fluid - superseded by DCSEA 638/A	-
AIR 3660/A	S-737	De-icing fluid - superseded by DCSEA 637A	AeroShell Compound 06A
AIR 4205/B	G-359	High temperature aircraft grease - superseded by DCSEA 359/A	AeroShell Grease 5
AIR 4206/B	G-355	Graphite grease - superseded by DCSEA 355/A	-
AIR 4207/A	G-361	Synthetic wide temperature range grease - superseded by DCSEA 361/B	-
AIR 4210/B	G-354	Synthetic grease - superseded by DCSEA 354/A	AeroShell Grease 7 AeroShell Grease 33
AIR 4214/B (Obsolete)	G-363	Gasoline and oil resistant grease - superseded by DCSEA 363/B	-
AIR 4215/B (Obsolete)	G-382	Aircraft general purpose grease - superseded by DCSEA 382/A	AeroShell Grease 6
AIR 4217/A	G-353	Molybdenum disulphide grease - superseded by DCSEA 353/A	-
AIR 4222	G-395	Synthetic general purpose grease - superseded by DCSEA 395/A	AeroShell Grease 22
AIR 4223	S-740	Molybdenum disulphide powder - superseded by DCSEA 640/B	-
AIR 4224	S-732	Graphite powder, lubricating - superseded by DCSEA 632/B	-
AIR 4225/B (Inactive)	G-350 (Obsolete)	Extreme pressure grease	-

French Specification	NAIO Code	Product and Application	AeroShell Grade
AIR 4226	G-352 (Obsolete)	Aircraft grease. Specification obsolete, replaced by AIR 4210/B	-
AIR 4246 (Inactive)	O-158	Lubricating oil, semi-fluid (-54 °C to +130 °C)	-
AIR 4247/A	S-720	Graphited anti-seize compound	-
AIR 8130 (Inactive)	C-630	Corrosion preventive soluble oil	-
AIR 8132	C-620	Corrosion preventive	-
AIR 8136 (Inactive)	C-627	Petroleum jelly/beeswax mixture for general preservation	AeroShell Compound 05
DCEA 202/B (Obsolete)	-	White spirit	-
DCEA 300 (Obsolete)	G-403	All purpose grease	-
DCSEA 501/A	S-758	Lubricant, cleaner and preservative	-
DCSEA 118/A (Obsolete)	F-18	Aviation gasoline, grade 100/130	Shell Avgas 100LL
DCSEA 134/C	F-34	Aviation turbine fuel with fuel system icing inhibitor	Shell JP-8
DCSEA 134C	F-35	Aviation turbine fuel - kerosine type	Shell Jet A-1 Shell AeroJet*
DCSEA 144/C	F-44	Aviation turbine fuel, high flash point type, with fuel system icing inhibitor	Shell JP-5 (special arrangements necessary)
DCSEA 255/A	O-155	Extreme pressure oil for transmissions	AeroShell Fluid 5MA
DCSEA 299/A	O-156	5mm ² /s synthetic turbine engine oil	AeroShell Turbine Oils 500, 560
DCSEA 353/A	G-353	Synthetic molybdenum disulphide grease	AeroShell Grease 64
DCSEA 354/A	G-354	Synthetic grease for airframe and instruments	AeroShell Grease 33
DCSEA 355/A	G-355	Graphited aircraft grease	-
DCSEA 359/A	G-359	Mineral Grease	AeroShell Grease 5

DCSEA 361/A (Obsolete)	G-361	Wide temperature range synthetic aircraft grease	-
DCSEA 363/A (Obsolete)	G-363	Gasoline and oil resistant grease	-
DCSEA 382/A	G-382	Aircraft general purpose mineral grease	AeroShell Grease 6
DCSEA 392/A	G-392	Synthetic grease for pneumatic systems - superseded by SAE AMS-G-4343	-
DCSEA 395/A	G-395	Multipurpose synthetic aircraft grease	AeroShell Grease 22
DCSEA 415/A	H-520	Mineral hydraulic fluid	AeroShell Fluid 4
DCSEA 415/A	H-515	Mineral hydraulic fluid	AeroShell Fluid 41
DCSEA 437/B	H-537	Synthetic hydrocarbon hydraulic fluid	AeroShell Fluid 31
DCSEA 502/A (Inactive)	S-761	Multifunctional synthetic lubricant for weapons	-
DCSEA 510/A	C-610	Turbine engine corrosion preventive	-
DCSEA 534/A	C-634	Corrosion preventive compound, water displacing	-
DCSEA 535/A	C-635	Preservative mineral hydraulic fluid	AeroShell Fluid 71
DCSEA 637/A	S-737	De-icing fluid	AeroShell Compound 06A
DCSEA 638/A	S-738	De-icing fluid	-
DCSEA 632/B	S-732	Graphite powder, lubricating	-
DCSEA 640/B	S-740	Molybdenum disulphide powder	-
DCSEA 745/A	S-1745	Fuel system icing inhibitor, high flash point type	-
DCSEA 745/A	XS-1745 (SEA code)	Mixture of S-1745 with anti-corrosion additive	-