



| AeroShell Grade            | Specifications   | NATO code        | Joint Service Designation | Product Description and Application   | Remarks   |
|----------------------------|--|------------------|---------------------------|---|---|
| <b>PISTON ENGINE OILS</b>  |  |                  |                           |   |   |
| AeroShell Oil 65           | SAE J1966 Grade 30   | O-113 (obsolete) | OM-107 (obsolete)         | Straight mineral (break-in) piston engine oil   | Available in the Americas only. Product discontinued in Dec 2020.   |
| AeroShell Oil 80           | SAE J1966 Grade 40   | O-115 (obsolete) | OM-170                    | Straight mineral (break-in) piston engine oil   | -   |
| AeroShell Oil 100          | SAE J1966 Grade 50   | O-117 (obsolete) | OM-270 (obsolete)         | Straight mineral (break-in) piston engine oil   | -   |
| AeroShell Oil 120          | SAE J1966 Grade 60   | O-128 (obsolete) | OM-370 (obsolete)         | Straight mineral (break-in) piston engine oil   | -   |
| AeroShell Oil W80          | SAE J1899 Grade 40   | O-123 (obsolete) | OMD-160                   | Ashless dispersant, mineral single-grade piston engine oil  | -   |
| AeroShell Oil W100         | SAE J1899 Grade 50   | O-125 (obsolete) | OMD-250                   | Ashless dispersant, mineral single-grade piston engine oil  | -   |
| AeroShell Oil W80 Plus     | SAE J1899 Grade 40   | -                | -                         | Ashless dispersant, premium mineral single-grade piston engine oil  | Approved for Lycoming SB 446E & 471B, AMOC FAA AD 80-04-03R2 p.1b   |
| AeroShell Oil W100 Plus    | SAE J1899 Grade 50   | -                | -                         | Ashless dispersant, premium mineral single-grade piston engine oil  | Approved for Lycoming SB 446E & 471B, AMOC FAA AD 80-04-03R2 p.1b   |
| AeroShell Oil W120         | SAE J1899 Grade 60   | O-128 (obsolete) | OMD-370                   | Ashless dispersant, mineral single grade- piston engine oil   | -   |
| AeroShell Oil W15W-50      | SAE J1899 Grade Multigrade   | O-162 (obsolete) | OMD-162                   | Ashless dispersant, semi-synthetic multigrade piston engine oil   | Approved for Lycoming SB 446E & 471B, AMOC FAA AD 80-04-03R2 p.1b   |
| AeroShell Oil Sport Plus 4 | API SL*<br>Rotax RON 424   | -                | -                         | Dedicated aviation oil for four-stroke light sport and microlight engines. Recommended by Rotax Viscosity grade 10W-40. | Rotax Service Instruction for Suitable Operating Fluids SI-912/SI-912i/SI-914/SI-915. Do not use in engines designed to use SAE J1899 or J1966. |
| AeroShell Oil Diesel Ultra | ACEA A3/B4*<br>API SL/CF*<br>Mercedes Benz MB229.5<br>(No aviation specifications yet defined) | -                | -                         | Fully synthetic dedicated diesel-engine aviation oil. Viscosity grade 5W-30.  | Approved for former Thielert/Centurion current Continental Diesel 1.7 and 2.0, Austro Engine AE300 and SMA SR305- 230E engines                  |
| <b>TURBINE ENGINE OILS</b> |  |                  |                           |   |   |
| AeroShell Turbine Oil 2    | MIL-PRF-6081E Grade 1010 & 1010N   | O-133            | OM-10 (obsolete)          | 2 mm <sup>2</sup> /s mineral fuel system inhibiting oil.  | -   |
| AeroShell Turbine Oil 3    | DEF STAN 91-099  | O-135            | OM-11                     | 3 mm <sup>2</sup> /s mineral fuel system inhibiting oil. Equivalent to and replaces AeroShell Fluid 1.                  | -   |
| AeroShell Turbine Oil 308  | MIL-PRF-7808L Grade 3  | O-148            | OX-9                      | 3 mm <sup>2</sup> /s synthetic ester aviation turbine oil.  | -   |
| AeroShell Turbine Oil 390  | DEF STAN 91-094  | -                | OX-7                      | 3 mm <sup>2</sup> /s synthetic diester aviation turbine oil.  | -   |
| AeroShell Turbine Oil 500  | MIL-PRF-23699G Grade STD<br>SAE AS5780D Grade SPC<br>DEF STAN 91-101 Grade OX-27               | O-156            | OX-27                     | Standard grade 5 mm <sup>2</sup> /s synthetic ester aviation turbine oil.   | -   |
| AeroShell Turbine Oil 555  | DOD-PRF-85734A<br>DEF STAN 91-100*   | O-160            | OX-26                     | 5 mm <sup>2</sup> /s synthetic ester oil for engines and helicopter transmissions.                                      | -   |
| AeroShell Turbine Oil 560  | MIL-PRF-23699G Grade HTS<br>SAE AS5780D Grade SPC<br>DEF STAN 91-101 Grade OX-27*              | O-154            | OX-27                     | High thermal stability 5 mm <sup>2</sup> /s synthetic ester aviation turbine oil.                                       | -   |
| AeroShell Turbine Oil 750  | DEF STAN 91-098  | O-149            | OX-38                     | 7.5 mm <sup>2</sup> /s synthetic ester aviation turbine engine oil.   | -   |
| AeroShell Ascender         | MIL-PRF-23699G Grade HTS<br>SAE AS5780D Grade HPC<br>DEF STAN 91-101 Grade OX-27*              | O-154            | OX-27                     | High performance capability 5 mm <sup>2</sup> /s synthetic hindered ester aviation turbine oil.                         | -   |

## NOTES

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Unit of measure for viscosities are shown as mm<sup>2</sup>/s, (millimetres squared per second). 1 mm<sup>2</sup>/s = 1 centiStoke (cSt)

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| <b>AVIATION GREASES</b>       |  |                           |  |   |   |
| AeroShell Grease 5            | MIL-G-3545C* (obsolete)<br>DTD.878A* (obsolete)  | G-359 (obsolete)          | XG-277 (obsolete)                      | Mineral Microgel grease for use in wheel-bearings and engine accessories  | Available in the Americas only.<br>DTD transferred to DEF STAN 91-52, NATO XG-293 |
| AeroShell Grease 6            | MIL-PRF-24139A<br>DEF STAN 91-028*<br>MIL-G-7711A* (obsolete)<br>DEF STAN 91-012* (obsolete) | G-450 (obsolete)<br>G-382 | XG-271 (obsolete)<br>XG-274 (obsolete) | General purpose mineral Microgel airframe grease for use in bearings and gearboxes  | -   |
| AeroShell Grease 7            | MIL-PRF-23827C (Type II)   | -                         | -                                      | Multipurpose synthetic ester Microgel airframe grease   | -   |
| AeroShell Grease 14           | MIL-G-25537C<br>DEF STAN 91-051  | G-366                     | XG-284                                 | Multipurpose helicopter grease, mineral base oil thickened with calcium soap  | -   |
| AeroShell Grease 22           | MIL-PRF-81322G<br>DOD-G-24508A<br>DEF STAN 91-052*   | G-395                     | XG-293                                 | General purpose, synthetic hydrocarbon Microgel aircraft grease   | -   |
| AeroShell Grease 33           | MIL-PRF-23827C (Type I)<br>DEF STAN 91-053*<br>SAE AMS3052A<br>BMS 3-33C<br>AIMS 09-06-002   | G-354                     | -                                      | Multipurpose lithium complex airframe grease with synthetic base oil  | -   |
| AeroShell Grease 64           | MIL-G-21164D<br>DEF STAN 91-057  | G-353                     | XG-276                                 | Synthetic hydrocarbon lithium complex airframe grease<br>Possesses extreme-pressure characteristics provided by 5% molybdenum disulphide          | -   |
| AeroShell Grease 58           | SAE AMS3058<br>AIMS 09-06-003  | -                         | -                                      | New generation of lithium complex grease for aircraft wheel bearings  | -   |
| <b>HYDRAULIC FLUIDS</b>       |  |                           |  |   |   |
| AeroShell Fluid 4             | MIL-H-5606A* (obsolete)<br>DEF STAN 91-048 Grade Normal*                                     | -                         | -                                      | Mineral hydraulic oil with very good low-temperature characteristics, dyed red  | Available in the Americas only.<br>Product discontinued in Dec 2020.              |
| AeroShell Fluid 31            | MIL-PRF-83282D   | H-537                     | OX-19                                  | Super-clean, fire-resistant, synthetic hydrocarbon PAO based hydraulic fluid, dyed red  | -   |
| AeroShell Fluid 41            | MIL-PRF-5606J<br>DEF STAN 91-048 Grade Superclean  | H-515                     | OM-15                                  | Super-clean, mineral hydraulic fluid, dyed red  | -   |
| AeroShell Fluid 61            | MIL-PRF-46170E (Type I)  | H-544                     | -                                      | Super-clean, preservative, synthetic hydrocarbon hydraulic fluid, undyed  | Type I is undyed (Type II is dyed red)  |
| AeroShell LGF                 | BMS 3-32C (Type II)  | -                         | -                                      | Extreme-pressure operational mineral hydraulic landing gear fluid, dyed yellow  | -   |
| <b>SPECIALIST FLUIDS</b>      |  |                           |  |   |   |
| AeroShell Fluid 2XN           | MIL-C-6529C Type I   | C-608                     | ZX-21 (obsolete)                       | Engine preservative mineral concentrate with ashless anti-corrosion additives for PEO.  | Product discontinued in Dec 2020.   |
| AeroShell Fluid 3             | MIL-PRF-7870E<br>DEF STAN 91-047* (obsolete)   | O-142                     | OM-12 (obsolete)                       | General-purpose low-temperature mineral lubricating oil   | -   |
| AeroShell Fluid 5M-A          | MIL-PRF-6086F Grade Medium<br>DEF STAN 91-112 Grade Medium                                   | O-155                     | OEP-70                                 | Medium-viscosity, extreme-pressure mineral gearbox oil  | Product discontinued in Dec 2020.   |
| AeroShell Fluid 12            | MIL-PRF-6085E<br>DEF STAN 91-049*  | O-147                     | OX-14*                                 | Low-temperature, synthetic ester instrument lubricating oil   | -   |
| AeroShell Fluid 602           | MIL-PRF-87252E   | S-1748                    | -                                      | Synthetic avionic cooling fluid   | Product discontinued in Dec 2020.   |
| AeroShell Fluid S.8350        | DTD.900/4981A* (obsolete)  | -                         | OEP-215                                | Extreme-pressure mineral helicopter gearbox oil   | Used in Lynx and Wildcat MRGB.  |
| AeroShell Calibrating Fluid 2 | MIL-PRF-7024F Type II  | -                         | -                                      | Special-run Stoddard solvent calibrating fluid for fuel systems   | -   |
| AeroShell Compound 07         | DTD.406B* (obsolete)   | S-745                     | AL-5                                   | Aircraft de-icing fluid for in-flight systems and on runway   | -   |
| AeroShell Smoke Oil           | -  | -                         | -                                      | Hydrocarbon fluid based on Shell Gas-to-Liquid Technology<br>Used in both piston engine and jet engine powered aviation aerobatic flight displays | -   |

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