

MOVING TO AEROSHELL FLUID 41



AeroShell



WHY IS AEROSHELL FLUID 4 BEING DISCONTINUED?

- AeroShell Fluid 4 meets an obsolete specification (MIL-H-5606A).
- AeroShell Fluid 41 is a proven alternative that meets the current specification (MIL-PRF-5606J). It is dyed red for identification and to aid hydraulic leak detection, and is fully compatible and miscible with AeroShell Fluid 4 while offering significant advantages.
- We will continue to sell existing AeroShell Fluid 4 stock but will no longer be producing this product as a better alternative is available that meets current specifications.

WHAT IS THE DIFFERENCE?

Both products are mineral hydraulic fluids. However, AeroShell Fluid 41 is a super-clean product, fine filtered during production and packaging to meet the more stringent particulate-contamination standards set by MIL-PRF-5606J.

AeroShell Fluid 41 is not tested against NAS 1638 cleanliness requirements, which are not part of the MIL-PRF-5606J specification. However, AeroShell Fluid 41 is typically between 4 and 5 in the NAS 1638 classification while AeroShell Fluid 4 is typically between 8 and 9.

While not all aircraft hydraulic systems require a super-clean hydraulic fluid, there are advantages of using super-clean products.

WHAT ARE THE ADVANTAGES?

Particulates in hydraulic fluids can cause system failures. Particulates are especially challenging for modern hydraulic systems that operate at high pressures and have components with tight tolerances.

By meeting super-clean standards, AeroShell Fluid 41 has fewer particulates for better protection of hydraulic systems against failure.

AeroShell Fluid 41 also comes in a wider range of pack sizes (24 x 1-quart tins, 6 x 1-gallon tins and 203-litre drums):

AeroShell Fluid 4		AeroShell Fluid 41	
Material code	Material description	Material code	Material description
		550043663	ASF41(NA)_24*1qt_A532
550043662	ASF4(NA)_6*1ugl_A532	550043667	ASF41(NA)_6*1ugl_A532
550043661	ASF4(NA)_1*55ugl_AIWJ	550043664	ASF41(NA)_1*203L_AIWJ

ABOUT AEROSHELL FLUID 41

AeroShell Fluid 41 is a mineral hydraulic oil manufactured to a very high level of cleanliness and with improved fluid properties. It is dyed red and contains additives that provide good low temperature fluidity, anti-wear, oxidation and corrosion inhibition, and shear stability. To enhance its performance, the high-viscosity-index fluid is also formulated with metal deactivators and foam inhibitors.

AeroShell Fluid 41 has a wide operating temperature range of -54 to 90°C when unpressurised and -54 to 135°C when pressurised.



AEROSHELL FLUID 41 IS FORMULATED TO PROTECT HYDRAULIC SYSTEMS AGAINST FAILURE BY MEETING SUPER-CLEAN STANDARDS.

BENEFITS AT A GLANCE

- **Enhanced system reliability** by protecting against system failure through super cleanliness
- **Long component life** through its anti-wear, antioxidant and corrosion-inhibition system, and shear-stability performance
- **System efficiency** through its low-temperature performance and high viscosity index

SUPER-CLEAN RELIABILITY

Particulates in hydraulic fluids can cause system failures through valve sticking, wear and blockages in nozzles and tubes. Particulates are especially challenging for modern hydraulic systems that operate at high pressures and have components with tight tolerances. AeroShell Fluid 41 is formulated to protect hydraulic systems against failure by meeting super-clean standards. Their particulate contents are tightly controlled through special manufacturing processes, including multistage filtration, container cleaning just before filling and clean-room packaging conditions.

SPECIFICATIONS

- Approved MIL-PRF-5606J
- NATO code H-515* (equivalent to H-520)
- Joint Service Designation OM15* (equivalent to OM-18)

APPLICATIONS

AeroShell Fluid 41 is recommended for operational use in modern aircraft applications requiring a mineral hydraulic fluid, particularly where the use of a super-clean fluid could help to improve component reliability.

It is also widely used in non-aviation industrial and automotive applications in which an extreme temperature range and high system reliability are required. For example, it offers protection for trucks operating at high latitudes and forklifts working in cold storage warehouses.

AeroShell Fluid 41 is fully compatible with AeroShell fluids 31, 61 and AeroShell Landing Gear Fluid. It is suitable for use in systems with synthetic rubber components but must not be used in systems incorporating natural rubber or with chlorinated solvents.

To maintain the super-clean quality of AeroShell Fluid 41, users must apply strict handling procedures, as specified in equipment manuals.



CONTACT US

For more information, contact your Shell representative or visit

www.aeroshell.com.

* Superclean grades: The British specification DEF STAN 91-48 and equivalent standards H-515 and OM15 cover two mineral hydraulic fluid grades (Normal and Superclean) that differ only in their cleanliness limits. AeroShell Fluid 41 is manufactured to meet the Superclean requirements and thus it also meets the requirements of the Normal grade.