

Benefits at a glance

- ✓ Longer component life through better wear and corrosion protection¹
- ✓ Reduced costs through prolonged bearing life¹
- ✓ Longer grease life through superior dry and wet mechanical stability¹
- ✓ Easier maintenance with the same grease technology available across the aircraft¹
- ✓ Peace of mind from a dedicated wheel-bearing grease based on proven AeroShell Grease 33 thickener technology

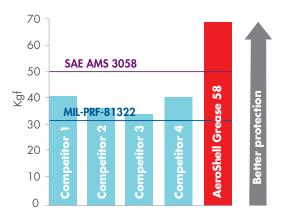


Superior corrosion control

AeroShell Grease 58		Competitor A	Competitor B	Competitor C
3% salt solution (EMCOR test ² required to meet the AMS 3058 specification)	NO VISIBLE CORROSION	>10% CORROSION (FAILS TO MEET THE SAE AMS 3058 SPECIFICATION)	1–5% CORROSION (FAILS TO MEET THE SAE AMS 3058 SPECIFICATION)	
De-icer 1	NO VISIBLE CORROSION	UP TO 1% CORROSION	NO VISIBLE CORROSION	NO VISIBLE CORROSION
De-icer 2	NO VISIBLE CORROSION	1–5% CORROSION	UP TO 1% CORROSION	5—10% CORROSION

Meeting the specifications where others fail: AeroShell Grease 58 exceeds SAE AMS 3058 corrosion requirements. Not all the popular, lithium-complex wheel-bearing greases meet these specifications or protect against the effects of the latest runway de-icing fluids. Two other greases that were tested failed: a popular red lithium-complex grease received the worst possible rating. AeroShell Grease 58 is also better than or equals competitors' products in EMCOR tests with corrosive runway de-icing fluids, thereby offering the best overall corrosion protection.

Performance under extreme pressure



A step change in extreme-pressure protection. AeroShell Grease 58 has **better load wear protection** compared with MIL-PRF-81322 greases in ASTM D2596 tests.

" AeroShell Grease 58 shows superior antiwear performances

compared with the red lithium-complex grease that Austrian Airlines normally uses. All the bearings look in better condition and **show less wear**".

ROMAN VALENTIN, COMPONENT ENGINEERING, AUSTRIAN AIRLINES



Benefits you can see³



AeroShell Grease 58, which meets the SAE AMS 3058 specification, after 548 cycles:

- remains in contact with the bearing rollers and the track
- provides better sealing against external contamination.



The red lithium-complex grease that Austrian Airlines normally uses, which does not meet the SAE AMS 3058 specification, after 548 cycles shows:

- signs of oil separation
- greater ingress of contaminants.

Specifications and approvals

AeroShell Grease 58 exceeds the requirements of

- SAE AMS 3058
- Airbus AIMS 09-06-003.

A comprehensive range

Whatever type of aircraft you fly, we can provide a full range of AeroShell oils, greases and fluids for your aircraft, including

- AeroShell Turbine Oil 560 for proven performance in engines and APUs
- AeroShell Turbine Oil 2 for fuel system preservation
- AeroShell Fluid 41 "superclean", mineral hydraulic oil
- AeroShell Grease 33 and AeroShell Grease 64.

CONTACT US

For further information, please contact your AeroShell representative:

www.aeroshell.com

¹Compared with MIL-PRF-81322 specification greases

²Industry standard EMCOR dynamic rust-prevention tests expose grease-lubricated moving bearings to water/sodium chloride solution for one week at room temperature with the bearings being partially immersed in the water/solution. The bearing rings are then examined for corrosion. The results are expressed from 0 to 5, with 0 showing no corrosion and 5 showing up to 10% of the inside surface of the bearing ring being corroded. Tests conducted by Shell scientists.

³Austrian Airlines evaluated AeroShell Grease 58 in Airbus A319 and A320 aircraft using Safran Landing Systems main landing gear and UTAS nose landing gear with

³Austrian Airlines evaluated AeroShell Grease 58 in Airbus A319 and A320 aircraft using Satran Landing Systems main landing gear and UIAS nose landing gear with Timken bearings. AeroShell Grease 58 and the red lithium-complex grease normally used by the airline were packed in paired wheels to enable comparison and evaluated over 14,522 landing cycles.