



Krytox™ AUT U14

Performance Lubricants

A Long-Lasting Lubricant for Smooth Operation and Noise Mitigation on EPDM Seals

Product Information

Krytox™ fluorinated lubricants can be used in all conditions and have long-life characteristics that make them an ideal lubricant for noise, vibration, and harshness (NVH) elimination applications.

Krytox™ AUT U14 is a high performance, extreme pressure, water-resistant oil for your most demanding needs. It can provide stable performance in temperature extremes and is designed to reduce friction and wear, while extending component life. It is extremely resistant to water washout. Its wide temperature range allows it to be used in both high and low temperature applications. These properties make Krytox™ a suitable product to ensure lifetime lubrication for weather stripping. The addition of a soluble ultraviolet (UV) dye allows for better quality controls in application. Under UV light, the product gives off a yellowish-green color that is visible to the unaided eye. The only equipment necessary is a standard broad-spectrum UV lamp, commonly known as a “black light.” Lamps that emit long wave UV light in the 365 nm range are available from almost any industrial supply company.

Testing shows improved surface wetting, which leads to lower static and dynamic coefficient of friction. This aids in reduced slip-stick and lower incidence of noise. Krytox™ AUT U14 also works very well on seals that have become contaminated. Zin Ziegler testing was conducted to simulate 100,000 km driving cycles with contamination. Overall, less incidence of slip-stick and noise was realized using Krytox™ AUT U14 compared to no lubrication and even competitive perfluoropolyether (PFPE) offerings.

Applications

Krytox™ AUT U14 oil helps prevent weather stripping problems on sunroofs, such as noise, vibration, and harshness (NVH) and buzz, squeak, and rattle (BSR) problems that occur over time. In areas of noise mitigation, they can be applied to the seals fixed to the moving panel(s), roof system frame, and body structure.

Compatibility

While Krytox™ oils are non-reactive, they have different chemistries than standard lubricants and should not be mixed with other non-PFPE lubricants. These lubricants are inert and will not react with any materials they may encounter. The polymeric nature of these products is extremely resistant to moisture, so it stays in place during cleaning. Cleaners and disinfectants, both acidic and caustic types, do not affect them. They do not damage plastic or elastomer seals, nor cause corrosion to metals. They are nonflammable and safe for use in oxygen service.

Krytox™ oils and greases are silicone-free. They do not contain any volatile organic compound (VOC) materials or chlorine and are not hazardous to the atmosphere or ozone layer. They are biologically and environmentally inert.

Properties	Krytox™ AUT U14 Oil
Base Oil Viscosity, 40 °C (104 °F), cSt	50
Volatility, 24 hr, 100 °C (212 °F), %	2.1
Base Oil Density, g/mL	1.9

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For product information, industry applications, technical assistance, or global distributor contacts, visit krytox.com or within the U.S. and Canada, call 1-844-773-CHEM/2436 or outside of the U.S., call 1-302-773-1000.

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