



Black Ice® Coating

Black Ice TFE coating is a hard coating that offers exceptional durability in all types of environments, with virtually any type of polymer lead-screw nut. Rather than acting as a dry lubricant, Black Ice TFE is an anti-friction coating whose surface properties displace the metal to which it is applied. Though it is not intended for use with metal or glass fiber reinforced nuts, Black Ice TFE is bonded securely to the surface of the lead-screw and can withstand abrasion from contamination, rigid polymer systems, fluid impingement and wash down applications.

Haydon® Super Slick Greases

Haydon offers a wide selection of greases designed to meet any application requirements. Please contact Haydon Kerk Motion Solutions for assistance in selecting the most effective lubrication option.

	Grease Type	Chemical Compatibility	Temperature	Load Carrying Capacity	Comments	Cost Comparison
HSS-17	Synthetic Hydrocarbon	Good	-20°C to +125°C	High	Standard	\$
HSS-03	Polyolester	Good	-54°C to +150°C	Moderate	Can-Stack Standard	\$
HSS-06	Perfluoropolyether	Best	-65°C to +250°C	Moderate	Tough Environments	\$\$
HSS-16	Perfluoropolyether	Better	-80°C to +204°C	Moderate	Vacuum compatible	\$\$\$
HSS-20	Perfluoropolyether	Best	-65°C to +250°C	Moderate	High Repeatability	\$\$\$

HSS-17

is a medium viscosity synthetic hydrocarbon grease thickened with lithium soap. It is fortified with EP (extreme pressure) modifiers to increase load carrying capabilities and TFE to increase lubricity and reduce friction. Rated temperature capacity is -20°C to +125°C.

HSS-03

is a light viscosity, polyolester based grease thickened with PTFE. It is an economical alternative to premium PFPE (perfluoropolyether) types where low temperature performance is a primary requirement as it provides low starting torque.

HSS-06

is a TFE thickened heavy viscosity perfluoropolyether grease. It is designed to operate in chemically harsh environments and provides excellent operating properties for light to medium loads. Rated temperature capacity is -65°C to +250°C. Standard on Hybrid Actuators.

HSS-16

is a perfluoropolyether grease developed for use in vacuum environments good to 4×10^{-13} torr at 20°C. Rated temperature capacity is -80°C to +204°C.

HSS-20

is an ultrafiltered version of HSS-06, meaning that the grease is put through a 'cleaning' process to remove any particles greater than 35 microns in size. It is designed for use when accuracy and repeatability are of utmost concern.