

Black Ice™

- For use in more aggressive environment conditions, or anywhere reduced friction and a permanent coating is desired

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 its is applied.

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.



Item #	Grease Type	Description	Chemical Compatibility	Temperature	Load Carrying Capacity	Attribute	Cost Comparison
HSS-17	Synthetic Hydrocarbon	Medium viscosity synthetic hydrocarbon grease thickened with lithium soap. Fortified with extreme pressure (EP) modifiers to increase load carrying capabilities and TFE to increase lubricity and reduce friction.	Good	-20°C to +125°C	High	Standard	\$
HSS-03	Polyolester	Light viscosity, polyolester based grease thickened with PTFE. Economical alternative to premium PFPE (perfluoropolyether) types where low temperature performance is a primary requirement as it provides low starting torque.	Good	-54°C to +150°C	Moderate	Can-Stack Standard	\$
HSS-06	Perfluoropolyether	FE thickened heavy viscosity perfluoropolyether grease. Designed to operate in chemically harsh environments and provides excellent operating properties for light to medium loads.	Best	-65°C to +250°C	Moderate	Tough Environments	\$\$
HSS-16	Perfluoropolyether	Perfluoropolyether grease developed for use in vacuum environments good to 4×10^{-13} torr at 20°C.	Better	-80°C to +204°C	Moderate	Vacuum Compatible	\$\$\$
HSS-20	Perfluoropolyether	Ultra-filtered version of HSS-06, meaning that the grease is put through a 'cleaning' process to remove particles greater than 35 microns in size. Designed for use when accuracy and repeatability are of utmost concern.	Best	-65°C to +250°C	Moderate	High Repeatability	\$\$\$