



## HELIX PTFE H10X™

Lead Screw Coating

### HELIX PTFE H10X™ DRY LUBRICANT

Helix™ PTFE is a fluoropolymer based coating and is combined with appropriate resins specially formulated to provide a tough, durable film for dry lubrication. Helix™ PTFE offers excellent abrasion and salt spray resistance. The film components stratify during the curing process and most of the fluoropolymer properties (such as low-coefficient of friction and non-stick character) are retained.

Helix™ PTFE is an excellent lubricant for medical, semiconductor, electronic, high precision and clean applications. Our Helix™ PTFE coating increases the efficiency of lead screw assemblies and can be applied to all Helix lead screws.

## H10X SPECIFICATIONS

### Coating Properties

Thickness	0.4 - 0.8 MIL
Color	Black
Tensile Strength (ASTM D1708)	3000-12000 PSI
Hardness (ASTM D2240)	60 HB (Shore D)
Abrasion Resistance (ASTM D4060)	Excellent
Adhesion (ASTM D4145)	OK (A)
Coefficient of Friction (ASTM D1894)	0.08 static
Chemical Resistance (ASTM D543)	Excellent
Salt Spray Resistance (ASTM B117-73)	>168hr at 5% solution, 35 C (95° F)
Dielectric Strength (ASTM D149)	100 volts per mil
Use Temperature	260 C (500° F) max

