

H10X™ PTFE Lead Screw Dry Lubricant

HELIX
LINEAR TECHNOLOGIES

Dry Lubricant for Lead Screws

Helix H10X™ PTFE is a fluoropolymer-based coating and is combined with appropriate resins specially formulated to provide a tough, durable film for dry lubrication. H10X™ 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.

H10X™ PTFE is an excellent lubricant for medical, semiconductor, electronic, high precision, and clean applications. Our H10X™ PTFE coating increases the efficiency of lead screw assemblies and can be applied to all Helix lead screws.

H10X PTFE™ Specifications

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)**

Coeffcient of Friction ASTM D1894: **0.15 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**

