Fluorocarbon

Common Name: Fluorocarbon  
ASTM D-2000 Classification: HK  
Chemical Definition: Vinyllidenefluoridehexafluoropropylene

General Characteristics:
- Durometer Range (Shore A): 50-95
- Tensile Range (P.S.I.): 500 – 2,000
- Elongation (Min-Max. %): 400-500
- Compression Set: Good to Excellent
- Resilience - Rebound: Poor to Fair
- Abrasion Resistance: Fair to Good
- Tear Resistance: Fair to Good
- Solvent Resistance: Excellent
- Oil Resistance: Excellent
- Low Temperature Usage (F°): -30° to 0°
- High Temperature Usage (F°): 450°-500°

Adhesion to Metal: Good to Excellent

Description:
Fluorocarbon Elastomers were first introduced in the mid 1950s. Since then they have grown to major importance in the rubber seal industry. Due to its wide spectrum chemical compatibility and temperature range and its low compression set, fluorocarbon rubber is the most significant single elastomer development in the recent history.

Fluorocarbon O-Rings should be considered for use in aircraft, automobile and other mechanical devices requiring maximum resistance to elevated temperature and too many functional fluids.

RECOMMENDED FOR

- Petroleum oils, Di-ester base lubricants (MIL-L-7808, MIL-L-6085)
- Silicate ester base lubricants (MLO 8200, MLO 8515, OS-45) anhydrous
- Halogeneted hydrocarbons, acids

NOT RECOMMENDED FOR

- Ketones (MEK, Acetone)
- Amines (UDMH), Ammonia, skydrol fluids