

Reinforced Polytetrafluoroethylene (FC-10)

FC-10 is recommended for use in dry applications; it is not recommended for use in water and aqueous solution applications because it exhibits high wear.

FC-10 is recommended for general-service food contact applications at temperatures from -70 °F to +450 °F (-57 °C to +232 °C).

Chemical Compatibility

FC-10 has limited chemical compatibility. It is not suitable for contact with aqueous solutions. For more information on chemical compatibility, reference Technical Report TR-60A in our online technical library at www.balseal.com.

FDA Compliance

FC-10 is an "FDA compatible and compliant" material for use in food contact.

Mechanical properties

The mechanical properties of **FC-10** at ambient temperatures are:

Tensile strength ASTM D638 2100 psi (148 kg/cm 2)

Elongation ASTM D638 230%

The following chart shows the wear rate of **FC-10** when it comes in contact with different media at various speeds and pressures:

"K" Wear Factor In³-min./ft-lb-hr x 10 ⁻¹⁰ ("K" Cm³-min./Kg-m-hr x 10 ⁻⁷)				
AIR	WATER		OIL	
Wear Rate at 50,000 P.V.	Wear Rate at 100,000 P.V.		Wear Rate at 100,000 P.V.	
Speed (75 FPM) – pressure (667 PSI)	Speed (100 FPM) – pressure (1000 PSI)	Speed (1000 FPM) – pressure (100 PSI)	Speed (100 FPM) – pressure (1000 PSI)	Speed (1000 FPM) – pressure (100 PSI)
Testing in Process	Testing in Process	Testing in Process	Testing in Process	Testing in Process

Color

White

Cost

\$

Advantages of FC-10

FDA compliant for components in contact with food

Other information

For additional information, please contact our Technical Sales Representative at (949) 460-2100. Bal Seal maintains a vast library of material references and testing information.