

Silicone Gasketing

F510 is the ideal gasketing material designed for a broad range of industrial chemical applications. F510 gasketing material not only maintains performance and integrity at higher pressures and temperatures, it decreases creep relaxation and cold flow unlike traditional PTFE (ptfe) gaskets. F510 is designed to withstand normal concentrations of acids, bases, and solvents as well as to be used with water, steam and fuels. It is highly abrasion resistant, unaffected by aging, and is available in large sheet sizes up to 60" x 120".

F710 is the ideal high performance, high pressure gasketing material for use with food. It can also be used with beverage and pharmaceutical applications, as well as operations which require a clean gasket product. F910 gasketing is cleared under the United States Food and Drug Administration for use as a gasket in direct contact with food.

As well as being FDA and USDA-compliant, **F910** has unique sealability, compressibility, and recovery properties and is resistant to a broad range of chemicals. Even under maximum loads and pressures, F910 minimizes cold flow and creep relaxation.

Typical Physical Properties - Silicone Gasketing

Property	ASTM Method	F510 General Purpose	F710 Chemical Resistant	F910 FDA-Compliant
Color	-	Fawn	Blue	White
Temperature	-	-350°F to +500°F (-212°C to +260°C)	-350°F to +500°F (-212°C to +260°C)	-350°F to +500°F (-212°C to +260°C)
Pressure Limit, psi bar	-	1,233 (85)	1,160 (80)	1,160 (80)
Sealability: Leakage rate (ml/hr), .07 bar@ 2000psi (14 n/mm ²) using ASTM Fuel A	F-37A	0.18	.013	0.09
Compressibility, (%) 2500 psi	F-36	10%	10%	6%
Recovery, (%) 2500 psi				
Creep Relaxation, (%) stress loss after 22 hrs. @ 100°C @ 6000 psi initial compression force	F-38B	20%	12%	23%
Tensile, psi (N/mm ²)	D-882	3,950 (27)	3,300 (21)	3,600 (25)
Elongation	D-882	300%	300%	300%