

F70

Fluorosilicone 70 durometer, Blue

F70 combines the excellent low-temperature performance of silicone with improved chemical resistance. F70 exhibits very good resistance to Transformer fluid, military and aerospace fuels; as well as excellent performance in oxygen plasma environments.

Serviceable temperature rating: -60°C - 180°C

Color: Blue

Compound Specification:

Compound: **F70** Effective: 1/95
 Description: Fluorosilicone, 70 durometer (Shore A)
 Specification: **MIL-R-25988B, CLASS 1, GRADE 70**
 Meets ASTM D2000: 2FK710,A19,EO36,F19

AS568-214 O-RINGS

<u>Original Physical Properties</u>		<u>Requirements</u>	<u>Test Results</u>
Tensile Strength	psi.	750 min	919
Ultimate Elongation	%	125 min	234
Harness, Shore A Durometer		70 +/- 5	70
Specific Gravity	gm/cc	As determined	1.51
Temperature Retraction (TRIO) 100% modulus, MPa	Deg. F	-70 max	-83
<u>Compression Set (Percentage of original deflection)</u>			
70 hrs. @	75 deg. F (24 deg. C)	15% max	3.5%
22 hrs. @	347 deg. F (175 deg. C)	30% max	11.1%
<u>Heat Air Aged 70 hrs. @ 392 deg. F (200 deg. C)</u>			
Change -	Tensile Strength	-25% max	-9.7%
Change -	Elongation	-25% max	-3.0%
Change -	Hardness, Shore A	+10 to -5	+1
Change -	Weight	-2% max	-0.2%
<u>AMS 3021 - 70 hrs. @ 302 deg. F</u>			
Change -	Tensile Strength	-40% max	-20.0%
Change -	Elongation	-25% max	-2.6%
Change -	Hardness, Shore A	+15 / -15	-8
Change -	Volume	+1% to + 15%	+10.1%
<u>TT-S-735 Type III Fuel - 22 hrs. @ 75 deg. F</u>			
Change -	Tensile Strength	-40% max	-21.1%
Change -	Elongation	-35% max	-21.4%
Change -	Hardness, Shore A	-20 max	-9
Change -	Volume	+1% to + 25%	+20.3%