

Hifluor™ Highly Fluorinated Fluorocarbon

No. 5708B1-USA

Parker V3819-75 Hifluor™ offers superior chemical and heat resistance

Parker's V3819-75 Hifluor™ is recommended where a highly chemical resistant O-ring seal material is needed. Service in nearly all chemical environments is generally possible. V3819-75 has very broad chemical compatibility - ranging from polar solvents to acids and bases. V3819-75 is capable of withstanding continuous temperatures as high as 260°C (500°F).

Physical Properties of V3819-75

Hardness, Shore A	78
Specific Gravity	2.01
100% Modulus, psi	1464
Tensile Strength, psi	2030
Elongation, % ult.	145
Low Temperature Properties	
TR-10, F	6
Compression Set	
70 hrs. @ 39 F (200 C)	22.4
70 hrs. @ 445 F (229 C)	33.1
Heat Resistance (change in hardness, pts.)	
24 hrs. @ 536 F (280 C)	0
70 hrs. @ 536 F (280 C)	+4
168 hrs. @ 536 F(280 C)	+5
Recommended Operating Temperature Range	-13 F to 500 F (-25 C to 260 C)
Short Term Temperature Capability	536 F (280 C)



Product Capability: V3819-75 should be considered for sealing applications such as chemical processing, petroleum refining, pipeline and process instrumentation. This compound exhibits excellent compression set and low temperature flexibility in addition to wide fluid resistance.

Typical chemicals sealed with V3819-75

- **Carbon Tetrachloride**
- **Ethylene Diamine**
- **Formic Acid**
- **Fuel FAM A**
- **Fuel FAM B**
- **Hydrochloric Acid**
- **Methylene Chloride**
- **N-Methyl-2-Pyrrolidone**
- **Pyridine**
- **Sodium Hydroxide**
- **Sulfonic Acid**
- **Triethylamine**

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Fluid Compatibility Data for V3919-75

<i>Hifluor™ Fluid Compatability Test Results</i>		<i>V3819-75</i>
Environment	Volume Change %	Hardness Change, pts.
Carbon Tetrachloride 168 hours at 167° F	13	-2
Ethylene Diamine 70 hours at 73° F	11	-15
Formic Acid (88%) 70 hours at 73° F	2.2	-1
Fuel FAM A 70 hours at 140° F	8.7	-6
Fuel FAM B 70 hours a 140° F	8.9	-7
Hydrochloric Acid 70 hours at 176° F	19.4	-9
Hydrochloric Acid (37%) 70 hours at 73° F	1.6	-2
Methylene Chloride 500 hours at 73° F	5	1
N-Methyl-2-Pyrrolidone 168 hours at 212° F	11	-4
Pyridine 500 hours at 104° F	9	-3
Sodium Hydroxide (27%) 70 hours at 212° F	1	0
Sulfonic Acid (98%) 70 hours at 140° F	2	-1
Triethylamine 24 hours at 73° F	0.2	-1

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