

FF580-75

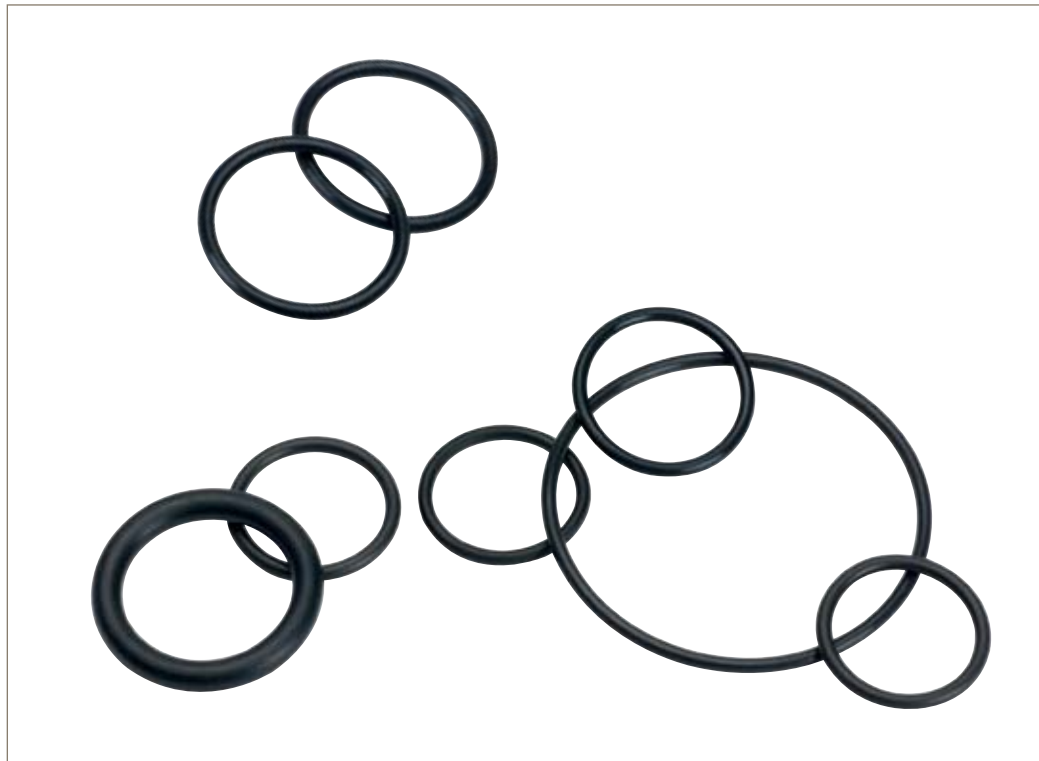
Parofluor ULTRA™ O-Rings



Outstanding Broad Chemical Resistance:

For industries and applications where chemical resistance is the primary concern, Parker compound FF580-75 excels. This black, 75 durometer, perfluorinated elastomer was developed for use in the harshest operating conditions, where good thermal stability (up to 275°C) and extreme chemical resistance is a requirement.

FF580-75 has excellent compatibility for use in bases, amines, steam, ethylene oxide, acids and many other aggressive chemicals. Because of this, it is well suited for the CPI, EOG, paint spray and general industrial markets.



Contact Information:

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Product Features:

- 75 shore A durometer
- Black in color
- Maximum operating temperature 275°C (527°F)
- Excellent compatibility with aggressive media
- Base resistance is best in class
- Steam resistance is best in class
- Outstanding compression set resistance
- Outstanding mechanical properties
- Products include O-rings, molded shapes, gask-o-seals and rubber bonded seals

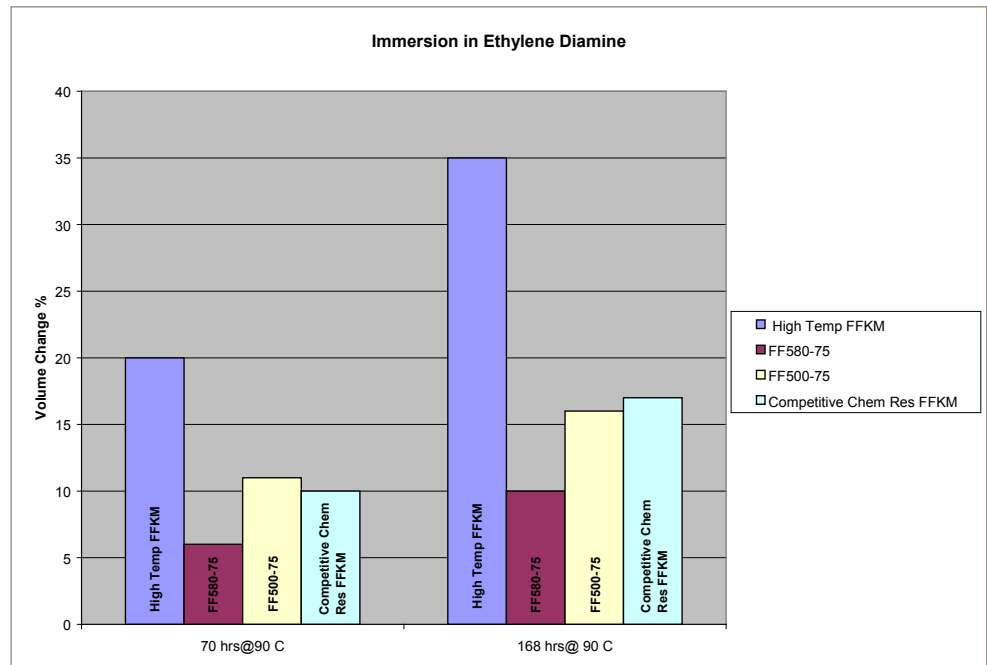


ENGINEERING YOUR SUCCESS.

Test Report Comparison

	Test Method	General Purpose FFKM	Chemically Resistant FFKM	High Temp. FFKM	FF580 Results
Compression Set, (70 hrs. @ 446°F)					
Percent of Original Deflection, max		38	29	23	21
Chemical Compatibility					
Fluid Immersion Butylaldehyde, (70 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+4	+6	+5	+1
Volume Change, %		0	0	0	0
Fluid Immersion Ammonium Hydroxide, (70 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+6	+8	+9	0
Volume Change, %		0	0	0	0
Fluid Immersion Furaldehyde, (70 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+6	+5	+7	+3
Volume Change, %		0	0	0	0
Fluid Immersion Ethylene Diamine, (70 hrs. @ 90°C)					
Hardness Change, Shore A pts.	ASTM D471	-6	-1	+5	-5
Volume Change, %		+24	+11	+20	+6
Fluid Immersion Ethylene Diamine, (168 hrs. @ 90°C)					
Hardness Change, Shore A pts.	ASTM D471	-5	0	-1	-1
Volume Change, %		+44	+16	+35	+10
Fluid Immersion MIL-83282, (70 hrs. @ 275°C)					
Hardness Change, Shore A pts.	ASTM D471	+2	+5	+7	-3
Volume Change, %		+1	+1	0	+1
Fluid Immersion MIL-83282, 168 hrs. @ 275°C)					
Hardness Change, Shore A pts.	ASTM D471	+4	+5	+5	-1
Volume Change, %		0	+1	+1	0
Fluid Immersion MIL-5606, (70hrs. @ 275°C)					
Hardness Change, Shore A pts.	ASTM D471	+1	+3	+6	-3
Volume Change, %		+3	+3	+3	+2
Fluid Immersion MIL-5606, (168 hrs. @ 275°C)					
Hardness Change, Shore A pts.	ASTM D471	+4	+1	+6	-2
Volume Change, %		+2	+1	+4	+2
Fluid Immersion Glacial Acetic, (70 hrs. @ 60°C)					
Hardness Change, Shore A pts.	ASTM D471	+2	-1	+1	0
Volume Change, %		+4	+3	+1	+8
Fluid Immersion 50% Glacial Acetic, (70 hrs. @ 60°C)					
Hardness Change, Shore A pts.	ASTM D471	+5	+6	+8	+1
Volume Change, % (Average)		+3	+2	0	+7
Fluid Immersion Sulfuric Acid (70 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+6	+6	+8	+3
Volume Change, %		0	0	0	0
Fluid Immersion Nitric Acid (70 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+5	+7	+10	+3
Volume Change, %		0	0	0	0

	Test Method	General Purpose FFKM	Chemically Resistant FFKM	High Temp. FFKM	FF580 Results
Fluid Immersion MEK (70 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+1	0	+2	-2
Volume Change, %		+1	+1	+1	0
Fluid Immersion MEK (168 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+1	+2	+1	+1
Volume Change, %		+1	+1	+1	+1
Fluid Immersion Toluene (70 hrs. @ 23°C)					
Hardness Change, Shore A pts.	ASTM D471	+4	+1	+2	0
Volume Change, %		0	+1	0	+2
Fluid Immersion Toluene (70 hrs. @ 168°C)					
Hardness Change, Shore A pts.	ASTM D471	+1	+3	+2	+2
Volume Change, %		+1	+1	+1	+1
Fluid Immersion NaOH 3M (70 hrs. @ 60°C)					
Hardness Change, Shore A pts.	ASTM D471	+6	+7	+8	+3
Volume Change, %		0	0	0	0
Fluid Immersion NaOH 3M (168 hrs. @ 60°C)					
Hardness Change, Shore A pts.	ASTM D471	+6	+8	+10	+3
Volume Change, %		+2	0	0	0
Fluid Immersion Steam (70 hrs. @ 121°C)					
Hardness Change, Shore A pts.	ASTM D471	+4	+6	+5	-1
Volume Change, %		0	0	0	-1
Fluid Immersion Steam (168 hrs. @ 121°C)					
Hardness Change, Shore A pts.	ASTM D471	+4	+1	0	+1
Volume Change, %		+5	+7	+8	+1



Photographs Taken at 21x Magnification Before and After Ethylene Diamine 168 hrs. @ 90°C



FF580-75 before



FF580-75 after

Applications:

- Valves
- Fittings
- Mechanical seals
- Process instrumentation
- Paint spray equipment



Competitor A before



Competitor A after



High temp. FFKM before



High temp. FFKM after