



MATERIAL REPORT

TITLE: General of Parker ULTRA perfluoroelastomer compound FF580-75.

PURPOSE: Test compound FF580-75 and competitive for resistance to high temperature steam.

CONCLUSION: Parker's FFKM compound FF580-75 offers excellent resilience and stability over a wide range of temperature environments.

Temperature Range: +5 to 525°F

Recommended For: Oils and greases made from petroleum or synthetic hydrocarbon base stock, silicone fluids, acids, bases, hot water, steam, alcohols, ozone and weathering, aromatic hydrocarbon fuels and solvents, chlorinated hydrocarbon solvents, aggressive polar solvents (MEK, acetone, etc.), automotive brake fluid, aircraft hydraulic fluids.

Not Recommended For: Fluorinated refrigerant gases, perfluorinated ether fluids, molten alkali metals.

REPORT DATA

Date: 8/18/2010
Compound: FF580-75

<u>Original Physical Properties</u>	<u>ASTM Test Method</u>	<u>Results (AS568-214)</u>
Hardness, Shore A	D2240	74
Tensile Strength, psi	D1414	1542
Elongation at Break, %	D1414	222
Modulus @ 100% Elongation, psi	D1414	417

Fluid Resistance, Saturated Steam 168 Hrs. @ 375° F

Hardness Change, pts.	D471	-4
Tensile Strength Change, %	D471	-15
Elongation Change, %	D471	+5
Modulus Change, %	D471	-8
Volume Change, % max	D471	0

Date: 2/8/2011
Compound: FF580-75

<u>Original Physical Properties</u>	<u>ASTM Test Method</u>	<u>Results (AS568-214)</u>
Hardness, Shore A	D2240	75

Fluid Resistance, Saturated Steam 336 Hrs. @ 257° F

Hardness Change, Shore A pts	D471	+2
Volume Change, %		+1

Fluid Resistance, Saturated Steam 70 Hrs. @ 375° F

Hardness Change, Shore A pts	D471	+2
Volume Change, %		0

Fluid Resistance, Saturated Steam 70 Hrs. @ 500° F

Hardness Change, Shore A pts	D471	+1
Volume Change, %		-4
Visual Observations		No noticeable Degradation

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