



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division United States

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 break fluid, aircraft hydraulic fluids.

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



Contact Us

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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, % | | 0 |

Fluid Resistance, Saturated Steam

70 Hrs. @ 500°F

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

Purchaser use only. Reproduce only in full. Data pertains to items referenced only.

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