



MATERIAL REPORT

Date: 5/3/2010

TITLE: General evaluation of Parker low temperature fluorocarbon compound VM128-75.

PURPOSE: Test compound VM128-75 to the qualification requirements of AMS-R-83485.

CONCLUSION: Parker's low temperature fluorocarbon compound VM128-75 meets the qualification requirements of AMS-R-83485.

Temperature Range: -40 to 400°F

Recommended For: Oils and greases made from petroleum or synthetic hydrocarbon base stock, silicone fluids, aromatic fuels and solvents, chlorinated hydrocarbon solvents, HTS turbine oils, ozone and weathering.

Not Recommended For: Automotive brake fluid, commercial aircraft hydraulic fluid, polar solvents (MEK, acetone, etc.)

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
(859) 269-2351

REPORT DATA

Date: 5/3/2010
 Batch No.: 80121681
 Compound: VM128-75

<u>Original Physical Properties</u>	<u>ASTM Test Method</u>	<u>Limit</u>	<u>Results (AS568-214)</u>
Hardness, Shore A	D2240	75 +/- 5	74
Tensile Strength, psi	D1414	1600	1950
Elongation at Break, %	D1414	120	281
Specific Gravity	D297	Report	1.81
<u>Compression Set</u>			
70 hrs @ 75°F			
% of original deflection, max	D395 Method B	25	5
<u>Fluid Resistance, TT-S-735 Type III</u>			
<u>70 Hrs. @ 75° F</u>			
Hardness Change, pts.	D471	+/- 5	0
Tensile Strength Change, %	D471	-30 max	-16
Elongation Change, %	D471	-20 max	-12
Volume Change, %	D471	+1 to +10	+3
<u>Dry Heat Resistance</u>			
<u>70 Hrs. @ 528° F</u>			
Hardness Change, pts.	D471	+/- 5	+2
Tensile Strength Change, %	D471	-35 max	0
Elongation Change, %	D471	-10 max	-9
Weight Change, %	D471	-12 max	-8
<u>Compression Set</u>			
168 hrs @ 347°F			
% of original deflection, max	D395 Method B	25 max	16
<u>Compression Set</u>			
22 hrs @ 392°F			
% of original deflection, max	D395 Method B	20 max	9
<u>Fluid Resistance, Blend 7700</u>			
<u>70 Hrs. @ 347° F</u>			
Hardness Change, pts.	D471	-15 to 0	-4
Tensile Strength Change, %	D471	-35 max	-8
Elongation Change, %	D471	-20 max	-4
Volume Change, %	D471	+1 to +20	+14
Compression set, %	D395 Method B	10	3
Compression set, % 18 hour cool-down		Report	7
<u>Low Temperature Retraction, 10%</u>			
TR-10, °F	D1329	-20 max	-22

Purchaser use only. Reproduce only in full. Data pertains to items referenced only. The recording of false, fictitious or fraudulent statements or entries on this report may be punishable as a felony under federal law.