



# MATERIAL REPORT

2/20/2007

**TITLE:** Parker Compound V1289-75

**PURPOSE:** To provide documentation to the above specification as well as provide a general profile of this material.

**CONCLUSION:** This compound meets the requirements of ASTM D2000 M4HK707 A1-11 B38 EF31 EO78 Z1 Z2 Z3 Z4  
Z1 = Hardness 75 +/- 5 Shore A  
Z2 = 100% minimum elongation  
Z3 = TR-10 -36C or colder  
Z4 = A1-11 -50% max tensile change

**TEMPERATURE RANGE:** -50F to 400F (-45C to 204C)

**RECOMMENDED FOR:** Oils and greases made from petroleum or synthetic hydrocarbon base stock, silicone fluids, aromatic fuels and solvents, chlorinated hydrocarbon solvents, alcohols, cold water, acids, extreme low temperatures, ozone and weathering.

**NOT RECOMMENDED FOR:** Automotive brake fluid, commercial aircraft hydraulic fluid, polar solvents (MEK, acetone, etc.)

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## REPORT DATA

Date: 2/20/2007  
Batch Number:80047465  
Compound: V1289-75

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results (Platen)</u>
(Z1)Hardness, Shore A, pts.	ASTM D2240	75 ± 5	76
Tensile Strength, MPa, min	ASTM D412	10.0 min	16.9
(Z2)Ultimate Elongation, % min	ASTM D412	100 min	155
 <b><u>(A1-11)Dry Heat Resistance</u></b>			
<b><u>70 hrs. @ 572°F</u></b>			
Hardness Change, pts.	ASTM D573	+10 max	+2
(Z4) Tensile Change, %		-50 max	-41
Elongation Change, %		-20 max	+61
 <b><u>(B38)Compression Set</u></b>			
<b><u>22 hrs. @ 392°F, (plied)</u></b>			
Percent of Original Deflection, max	ASTM D395 Method B	50%	15
 <b><u>Fluid Immersion</u></b>			
<b><u>IRM 903 Oil, 70 hrs. @ 302°F</u></b>			
Volume Change, %	ASTM D471	+10% max	+1
 <b><u>(EF31)Fluid Immersion</u></b>			
<b><u>Fuel C, 70 hrs. @ 73°F</u></b>			
Hardness Change, pts.	ASTM D471	± 5	-6
Tensile Change, %		-25 max	-18
Elongation Change, %		-20 max	-17
Volume Change, %		0 to +10	+6
 <b><u>(EO78) Fluid Immersion</u></b>			
<b><u>Service Fluid 101, 70h @ 392°F</u></b>			
Hardness Change, pts.	ASTM D471	-15 to +5	-3
Tensile Change, %		-40 max	-14
Elongation Change, %		-20 max	+4
Volume Change, %		0 to +15	+7
 <b><u>(Z3)Low Temperature Resistance</u></b>			
TR-10,°C	ASTM D1329	-36	-38