



MATERIAL REPORT

REPORT NUMBER: KT 1703

DATE: 12/10/84

TITLE: Evaluation of Parker low temperature Nitrile Compound N0756-75 tested to the requirements of ASTM D2000/J200 line call out M7BG 810 B14, EA14, E014, E034, F17, Z1, Z2

PURPOSE: To determine if N0756-75 meets the line call out.

CONCLUSION: Parker compound N0756-75 meets or exceeds the requirements of the above line call out.

Recommended Temperature Range: -65 to 275F

Recommended for: petroleum oils, water (up to 212F),
Salt & Alkali solutions, weak acids

Not Recommended for: aromatic fuels, strong acids,
glycols, ozone, polar solvents

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REPORT DATA

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	SPECIFICATION	PARKER COMPOUND
<u>ORIGINAL PHYSICALS</u>	ASTM D2000/J200	
Z1 Hardness, Shore A, pts.	M7BG 810 B34, EA14, E014, E034, F17, Z1, Z2	<u>N0756-75</u>
Tensile Strength, psi.	75 ± 5	70
Elongation, %	1431	1870
	125	160
<u>HEAT AGING</u>		
<u>70 HRS. @ 100°C</u>		
Hardness Change, pts.	±15	+8
Tensile Strength Change, %	±30	-6.3
Elongation Change, %	-50	-21.2
<u>EA14 FLUID IMMERSION WATER,</u>		
<u>70 HRS. @ 100±C</u>		
Hardness Change, pts.	±10	+3
Volume Change, %	±15	-0
<u>E014 FLUID IMMERSION, ASTM OIL #1,</u>		
<u>70 HRS. @ 100°C</u>		
Hardness Change, pts.	-5 to +15	+7
Tensile Strength Change, %	-25	+13
Elongation Change, %	-45	+3
Volume Change, %	-10 to +5	-7
<u>EO34 FLUID IMMERSION, ASTM OIL #3,</u>		
<u>70 HRS. @ 100°C</u>		
Hardness Change, pts.	-10 to +5	-8
Tensile Strength Change, %	-45	-0
Elongation Change, %	-45	-0
Volume Change, %	0 to +25	+ 17
<u>B34 COMPRESSION SET,</u>		
<u>22 HRS. @ 100°C</u>		
% of Original Deflection	25	12
<u>F17 LOW TEMPERATURE</u>		
<u>BRITTLENESS</u>		
<u>ASTM D2137</u>		
3 min. @ -40°C	Pass	Pass
<u>Z2 TR-10°F</u>		
ASTM D1329, max	-49	-55