



# MATERIAL REPORT

REPORT NUMBER: KK1448

**TITLE:** Evaluation of Parker Compound N0497-70 to the requirements of SAE J120 R1 Class II.

**PURPOSE:** To obtain results relative to subject specification.

**CONCLUSION:** Parker Compound N0497-70 meets or exceeds all requirements of SAE J120 R1 Class II specification.

**Recommended Temperature Range:** -35 to 212F

**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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<u>ORIGINAL PHYSICAL PROPERTIES</u>	SAE J120 R1 CLASS II SPECIFICATION <u>ASTM SPECIMEN</u>	COMPOUND N0497-70 <u>PLATENS</u>
Hardness, Shore A, pts.	70 ± 5	70
Tensile Strength, psi.	1500	1760
Ultimate Elongation, %	200 - 400	330
Modulus @ 100%, psi., min.	450	555
<u>HEAT AGING, 70 HRS. @ 212°F</u>		
Hardness Change, pts., max.	+10	+ 1
Tensile Strength Change, %, max.	-15	- 1.7
Elongation Change, %, max.	-50	-21.2
<u>COMPRESSION SET, 70 HRS. @ 212°F, METHOD B, ASTM SPECIMEN</u>		
% of Original Deflection, max.	25	15.5
<u>FLUID IMMERSION, FUEL A, 70 HRS. @ R.T.</u>		
Hardness Change, pts.	0 to - 8	0
Tensile Strength Change, % max.	- 15	- 4
Elongation Change, %, max.	- 25	- 6.1
Volume Change, %	± 3	- 1.3
Volume Change After Drying 4 hrs. @ 158°F, % max.	- 6	- 3.4
<u>FLUID IMMERSION, FUEL C, 70 HRS. @ R.T.</u>		
Volume Change, %, max.	+35	+15.8
<u>FLUID IMMERSION, FUEL B, 70 HRS. @ R.T.</u>		
Hardness Change, pts., max.	-20	-10
Tensile Strength Change, %, max.	-50	-15.3
Elongation Change, %, max.	-50	-12.1
Volume Change, %, max.	+25	+ 8.7
Volume Change After Drying 4 hrs. @ 158°F, % max.	-10	- 7.3
<u>LOW TEMPERATURE AGING, ASTM D746</u>		
3 min. @ - 20°F	No Cracks	Passed