



# MATERIAL REPORT

REPORT NUMBER: KK1793

**TITLE:** Evaluation of Parker Compound C1124-70 to AMS 3209H

**PURPOSE:** To show compliance of all phases of specification.

**CONCLUSION:** Parker Compound C1124-70 meets or exceeds all phases of the specification.

Recommended temperature limits: -60°F to 250 °F

Recommended For

Carbon Dioxide

Ammonia

Refrigerants

Silicone oil and grease

Water and water solvents at low temperatures

Not Recommended For

Aromatic hydrocarbons, e.g, benzene

Chlorinated hydrocarbons

Polar solvents, e.g. ketones, esters, ethers, acetones



## REPORT DATA

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	<u>AMS 3209H</u> <u>Specification</u>	<u>C1124-70 Test</u> <u>Results</u>
<u>Basic Physical Properties</u>		
Hardness	70 ±5	70
Tensile Strength, psi.	1700	1782
Elongation, % min.	200	250
Modulus @ 100%, psi	1/	495
Tear Resistance, lb./in.	2/	206
Specific Gravity	3/	1.44
<u>Compression Set, 70 H @ 212°F</u>		
% Max. Deflection	70	32.4
<u>Heat Aging, 70 H @ 212°F</u>		
Hardness Change, pts	0 to +10	+4
Tensile Change, %	-20	-5.5
Elongation Change, %, max.	-50	-7.6
Flat Bend	4/	Pass
<u>Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u>		
Tensile Change, %, max	-50	-25.9
Elongation Change, % max.	-40	-0.4
Volume Change, % max.	+40 to +100	+44.1
Decomposition	None	Pass
Surface Tackiness	None	Pass
<u>Low Temperature Resistance, 3 min. @ -35 °C</u>		
Brittleness	Pass	Pass

1/ 20% of pre-production value

2/ 80% of pre-production value

3/ ±.02 of pre production value

4/ N cracking or checking