



MATERIAL REPORT

REPORT NUMBER: KK1719A

DATE: 01/14/86

TITLE: First Article Test Report for Compound L1077-75 to MIL-R-25988B, Class 3 requirements.

PURPOSE: To Determine if compound meets MIL-R-25988B.

CONCLUSION: Parker Compound L1077-75 meets all phases of the specification.

Recommended temperature limits: -90 °F to 350 °F

Recommended For

Aromatic mineral oils (IRM 903 oil)

Petroleum oils

Low molecular weight automatic hydrocarbons (benzene, toluene)

Jet Fuels

Chlorinated Solvents

Dry heat and low temp

Not Recommended For

Phosphate-esters

Acids

Ketones

Amines (ammonia)

Auto and aircraft brake fluids



REPORT DATA

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	MIL-R-25988B		L1077-75	
		CL 3, Type I,		
		Type II		
	Type 1	Requirements	O-rings	Platens
<u>Basic Physical Properties</u>				
Hardness	75 ±5	75±5	77	80
Tensile Strength, psi.	700	800	1077	1194
Elongation, %	90	100	145	130
TR-10, °F	-70	-70	-73	----
Tensile @ 100% Elong., psi, min.	N/A	700	N/A	955
Tear Strength, psi., min.	N/A	40	N/A	101
<u>Compression Set, 70 H @ RT</u>				
% of Original Deflection	20	15	8.6	15
<u>Heat Age, 70 H @ 437 °F</u>				
Hardness Change, pts		+10 to -5	+6	+4
Tensile Change, %		-35	-14.8	-23.5
Elongation Change, %		-45	-43.4	-30.8
Weight Loss, % max		2	1.0	1.3
<u>Compression Set, 22 H @ 347°F</u>				
% of Original Deflection		35	20.6	19.3
<u>Fluid Immersion, Stauffer 7700 AMS 3021, 70 H @ 302°F</u>				
Hardness Change, pts		±20	-4	-9
Tensile Change, %		-30	-21.4	-21.0
Elongation Change, %		-20	-2.1	-3.8
Volume Change, %		+1 to +15	9.2	9.3
Compression Set		80	23.5	33.8
<u>Fluid Immersion, TT-S-735, Type III 70 H @ RT</u>				
Hardness Change, pts.		-15	-6	-7
Tensile Change, %		-35	-22.9	-15
Elongation Change, %		-30	-6.9	-3.8
Volume, Change, %		+1 to +25	+15	+14.8