



MATERIAL REPORT

REPORT NUMBER: KK2204
DATE: 05/31/1994

TITLE: L1218-80 to MIL-R-25988B

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

CONCLUSION: Parker Compound L1218-80 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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	<u>MIL-R-25988B , Ty</u> <u>I, CL I, Gr 80</u> <u>Requirements</u>	<u>L1218-80</u> <u>.070</u>	<u>L1120-70 2-214</u> <u>O-Rings</u>
<u>Basic Physical Properties</u>			
Hardness	80±5	79	79
Tensile Strength, psi.	750	1149	1055
Elongation, %	70	200	177
Temperature Retraction, °F, max	-70		-80
Specific Gravity	As Determined		1.57
<u>Compression Set After Air</u> <u>Aging, 70 H @ 75°F ± 5°F</u>			
Compression Set, %, max.			
Under 0.110 "	25	6	
Over 0.110"	20		6
<u>After Air Aging, 70 H @ 392</u> <u>°F ± 5°F</u>			
Hardness Change, pts	+10, -5		0
Tensile Change, %	20		-7
Elongation Change, %	20		1
Weight Loss, % max	2		-2



Compound Data Sheet
Parker O-Ring Division United States

Compression Set, % max
After Air Aging, 22 H @
347°F

Under 0.110 "	50	15	
Over 0.110"	45		10

After Air Aging in AMS
3021, 70 H @ 302°F

Hardness Change, pts	±15		-7
Tensile Change, %	30		-6
Elongation Change, %	15		-7
Volume Change, %	+1 to +15		+7

Compression Set, %, max

Under 0.110 "	65	6	
Over 0.110"	60		3

Fluid Immersion, 22 H @ 75
°F in TT-S-735, Type III

Hardness Change, pts, max	-20		-7
Tensile, Decrease, %, max	30		-12
Elongation Decrease, %	30		-3
max			
Volume, Change, %	+1 to +25		+16