



## MATERIAL REPORT

REPORT NUMBER: KK2191  
DATE: 08/24/93

**TITLE:** Evaluation of Parker Compound V1164-75 to MIL-R-83248C  
Type 1, Class 1 Specifications  
**PURPOSE:** To determine if V1164-75 meets the requirements.  
**CONCLUSION:** Compound V1164-75 meets the specification requirements.

Recommended temperature limits: -15<sup>0</sup>F to 400<sup>0</sup>F

### Recommended For

Petroleum, mineral, and vegetable oils  
Silicone fluids  
Aromatic hydrocarbons (benzene, toluene)  
Chlorinated hydrocarbons  
High vacuum  
Ozone, weather, and aging resistance

### Not Recommended For

Hot water and steam  
Auto and aircraft brake fluids  
Amines  
Ketones  
Low molecular weight esters and ethers



Contact Us



## REPORT DATA

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<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>Specification</u>	V1164-75 2-214 <u>B/N 20003633</u>
Hardness, Shore A, pts.	75 ± 5	75
Tensile Strength, psi. min.	1400	1694
Elongation, % min.	125	229
Specific Gravity	As Determined	1.84
Aromatic Fuel Resistance:		
<u>Fuel B (70 h @ 73°F), ASTM D471</u>		
Hardness Change	-5 to +5	-3
Tensile Change, %, max	-20	-16.4
Elongation Change, %, max	-20	-17.9
Volume Change, %	0 to +5	+1.7
Synthetic Lubricant Resistance:		
<u>ARM 200, (70 h @ 392°F), ASTM D471</u>		
Hardness Change	-15 to 0	-15
Tensile Change, %, max	-35	-14.3
Elongation Change, %, max	-20	+8.7
Volume Change, %	+1 to +25	+17.4
Compression Set:		
<u>ARM 200, (70 h @ 392°F), ASTM D395 Method B</u>		
Percent of Original Deflection, %, max		
Under 0.110 inch	30	
Over 0.110 inch	10	1.5
Dry Heat Resistance:		
<u>(70 h @ 518°F), ASTM D573</u>		
Hardness Change	-5 to +10	-1
Tensile Change, %, max	-35	-16.6
Elongation Change, %, max	-15	-2.6
Weight Loss, %, max	10	1.9
Compression Set:		
<u>(22 h @ 392°F), ASTM D395 Method B</u>		
Percent of Original Deflection, %, max		
Under 0.110 inch	20	
Over 0.110 inch	15	7.4
Long Term Compression Set:		
<u>(336 H @ 392°F), ASTM D395 Method B</u>		
Percent of Original Deflection, %, max		
Under 0.110 inch	45	
Over 0.110 inch	40	31.4



**Compound Data Sheet**  
**Parker O-Ring Division United States**

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Low Temperature Resistance, ASTM D1329  
Temperature Retraction, TR, point max

-15°C(+5°F)

-17°C(+1°F)

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