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

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# 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

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2360 Palumbo Drive  
Lexington, Kentucky 40509  
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**REPORT DATA**

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| <u>ORIGINAL PHYSICAL PROPERTIES</u>                | <u>Specification</u> | V1164-75<br>2-214<br><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                                     |

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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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