MATERIAL REPORT
Report Number: KK1499
Date: 10/9/1984

TITLE: Evaluation of Parker Compound E0962-90 in water, high temperature steam, and a 10% oil and steam combination.

PURPOSE: To determine property changes in water, high temperature steam and oil at temperatures up to 600°F for 168 hours.

CONCLUSION: Parker Compound E0962-90 maintains excellent physical properties even after a 10% Mil-H-5606D oil and steam age for 168 hours at 550°F.

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

Recommended For
Hot water and steam
Glycol based brake fluid
Many organic and inorganic acids
Cleaning agents, soda and potassium alkalis
Phosphate—ester based hydraulic fluids
Silicone oil and grease
Polar solvents
Ozone, Aging and weather resistance

Not Recommended For
Mineral oil products
## REPORT DATA
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### E0962-90 2-214 O-rings

<table>
<thead>
<tr>
<th>Test Condition</th>
<th>Hardness Change, pts.</th>
<th>Tensile Change, %</th>
<th>Elongation Change, %</th>
<th>Modulus @ 100%, psi</th>
<th>Volume Change, %</th>
<th>Compression Set, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid Immersion, Water, 168H @ 212°F</td>
<td>-1</td>
<td>-3</td>
<td>0</td>
<td>---</td>
<td>+1.2</td>
<td>26.5</td>
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<tr>
<td>Aging in Steam, 168H @ 550°F</td>
<td>-5</td>
<td>-19</td>
<td>+6</td>
<td>1710</td>
<td>+2.1</td>
<td>80.9</td>
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<tr>
<td>Aging in Steam, 168H @ 600°F</td>
<td>-22</td>
<td>-76</td>
<td>+14</td>
<td>466</td>
<td>+4.0</td>
<td>85.7</td>
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<tr>
<td>Aging in 10% Mil-H-5606D + Steam, 168H @ 550°F</td>
<td>-15</td>
<td>-52</td>
<td>+2</td>
<td>---</td>
<td>+16.6</td>
<td>76.5</td>
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</tbody>
</table>