



# MATERIAL REPORT

Date: 10/02/95

**TITLE:** Evaluate Parker's Compound N1490-90 per ASTM D2000  
M7BG910 EA14 EO14 EO34 EF11 EF21 .

**PURPOSE:** General Data.

**CONCLUSION:** Parkers Compound N1490-90 passes all requirements of the  
subject specification.

**Recommended Temperature Range:** -30 to 250F

**Recommended for:** petroleum oils, water (up to 212F),  
Salt & Alkali solutions, weak acids

**Not Recommended for:** aromatic fuels, strong acids,  
glycols, ozone, polar solvents

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## REPORT DATA

| <u>ORIGINAL PHYSICAL PROPERTIES</u>                         | M7BG910 EF11<br><u>EF21 EO34 EA14 EO14</u> | PLATENS<br>COMPOUND<br><u>N1490-90</u> |
|---|--|--|
| Hardness, Shore A, pts.                                     | 90 +/-5                                    | 87                                     |
| Tensile Strength, psi.                                      | 1450                                       | 2006                                   |
| Elongation, %   | 100  | 164                                    |
| <br>  |  |  |
| EA14 FLUID IMMERSION, WATER,<br><u>70 HRS. @ 212°F</u>      |  |  |
| Hardness Change, pts.                                       | +/-10                                      | -3                                     |
| Volume Change, %  | +/-15                                      | +10                                    |
| <br>  |  |  |
| EO14 FLUID IMMERSION, ASTM #1 OIL<br><u>70 HRS. @ 212°F</u> |  |  |
| Hardness Change, pts.                                       | -5 to +10                                  | +4                                     |
| Tensile Change, %   | -25  | +15                                    |
| Elongation Change, %  | -45  | -13                                    |
| Volume Change, %  | -10 to +5                                  | -5                                     |
| <br>  |  |  |
| EO34 FLUID IMMERSION, ASTM #3 OIL<br><u>70 HRS. @ 212°F</u> |  |  |
| Hardness Change, pts.                                       | -10 to +5                                  | -5                                     |
| Tensile Change, %   | -45  | +13                                    |
| Elongation Change, %  | -45  | -11                                    |
| Volume Change, %  | 0 to +25                                   | +9                                     |
| <br>  |  |  |
| EF11 FLUID IMMERSION, FUEL A<br><u>70 HRS. @ R.T.</u>       |  |  |
| Hardness Change, pts.                                       | +/-10                                      | -3                                     |
| Tensile Change, %   | -25  | +12                                    |
| Elongation Change, %  | -25  | +7.0                                   |
| Volume Change, %  | -5 to +25                                  | +1.0                                   |
| <br>  |  |  |
| EF21 FLUID IMMERSION, FUEL B<br><u>70 HRS. @ R.T.</u>       |  |  |
| Hardness Change, pts.                                       | 0 to -30                                   | -19                                    |
| Tensile Change, %   | -60  | -13                                    |
| Elongation Change, %  | -60  | -20                                    |
| Volume Change, %  | 0 to +40                                   | +25                                    |