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# MATERIAL REPORT

Report Number: KK2155

Date: 11/07/91

**TITLE:** Evaluation of Parker Compound E0515-80 to ASTM D200 line call out M2AA819 A13 EA14 F17

**PURPOSE:** To verify that E0515-80 meets the above specification.

**CONCLUSION:** Parker Compound E0515-80 meets or exceeds all phases of the specification.

Recommended temperature limits: -70°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



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

**REPORT DATA**

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<u>BASIC REQUIREMENT</u>	<u>SPECIFICATION</u>	<u>E0515-80 RESULTS</u>
Hardness, Shore A, pts.	80 ± 5	82
Tensile Strength, MPa (psi.)	10 (1450)	12.8 (1855)
Elongation, %	150	181
<u>COMPRESSION SET</u> <u>22 HRS @ 70°C (158°F)</u>		
Max., %	50	8.4
<u>A13, HEAT AGE</u> <u>70 HRS @ 70°C (158°F)</u>		
Hardness Change, pts	± 15	0
Tensile Change, %	± 30	- 20.3
Elongation Change, %	- 50	- 25.4
<u>EA14, WATER RESISTANCE</u> <u>70 HRS @ 100°C (212°F)</u>		
Volume Change, %	10	- .4
<u>F17, LOW TEMP BRITTLENESS</u> <u>3 MIN @ -40°C (-40°F)</u>		
Non Brittle	Pass	Pass