



MATERIAL REPORT



REPORT NUMBER: KK2097
DATE: 11/19/90

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TITLE: Evaluation of Parker Compound S0614-80 to AMS 3305H Specifications

PURPOSE: To determine if S0614-80 meets the callout.

CONCLUSION: Compound S0614-80 meets the requirements.

Recommended temperature limits: -65⁰F to 450⁰F

Recommended For

Dry heat
Some petroleum oils
Moderate water resistance
Fire resistant hydraulic fluids (HFD-R and HFD-S)
Ozone, aging, and weather resistance
Low temperature

Not Recommended For

Ketones
Acids
Silicone oils
Auto and aircraft brake fluid



REPORT DATA

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	AMS 3305H <u>Pass / Fail Limits</u>	S0614-80 <u>Platen Results</u>
<u>Basic Physical Properties</u>		
Hardness	80 +/- 5	80
Tensile Strength, psi (Mpa) min	650 (4.48)	923
Elongation, % min	100	128
Tear Resistance, Die B, lb per in	25	58
Specific Gravity	preproduction, +/- 0.03	1.43
<u>Dry Heat Resistance, 70 HRS @ 437⁰F</u>		
Hardness Change, pts		
Tensile Change, % max	+/- 10	+6
Elongation Change, % max	-25	+8.8
Bend (Flat)	-40	-31
	No cracking or checking	None
<u>Compression Set, 70 HRS @ 302⁰F</u>		
% of Original Deflection, max	30	16
<u>Fluid Immersion, ASTM #1 Oil, 70 HRS @ 302⁰F</u>		
Hardness Change, pts	-15 to +5	-1
Tensile Change, % max	-20	+1.3
Elongation Change, % max	-15	-10
Volume Change, %	0 to +15	+1.5
Decomposition	None	None
Surface Tackiness	None	None
<u>Low Temperature Resistance</u>		
Nonbrittle, 3 min @ -85 ⁰ F	Pass	Pass