



MATERIAL REPORT

REPORT NUMBER: KK2095
DATE: 11/08/90

TITLE: Evaluation of Parker Compound S0595-50 to AMS 3302G Specifications
PURPOSE: To determine if S0595-50 meets the callout.
CONCLUSION: Compound S0595-50 meets the requirements.

Recommended temperature limits: -70⁰F to 400⁰F

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

Report Number: KK2095

	<u>AMS 3302 G</u> <u>Pass / Fail Limits</u>	<u>S0595-50</u> <u>Platen Results</u>
<u>Basic Physical Properties</u>		
Hardness	50 +/- 5	53
Tensile Strength, psi min	700	822
Elongation, % min	200	432
Tensile Stress @ 100%, max. psi	450	171
Tear Resistance, Die B, min., in-lb	35	60
Specific Gravity	Report	1.26
<u>Dry Heat Resistance, ASTM D513,</u> <u>70 HRS @ 437°F</u>		
Hardness Change, pts	+/-10	+5
Tensile Change, % max	-20	+11.6
Elongation Change, % max	-40	-18.9
Bend (Flat)	No cracking or checking	None
<u>Compression Set, ASTM D395,</u> <u>70 HRS @ 302°F</u>		
% of Original Deflection, max	25	25
<u>Fluid Immersion, ASTM D471 ASTM #1 Oil,</u> <u>70 H @ 302°F</u>		
Hardness Change, pts	-15 to +5	-5
Tensile Change, % max	-25	+3.7
Elongation Change, % max	-20	-1.4
Volume Change, %	0 to +15	+1.9
Decomposition	None	None
Surface Tackiness	None	None
<u>Low Temp Brittleness D2137, Method A</u> <u>3 MIN @ -85°F</u>		
	Pass	Pass