



MATERIAL REPORT

REPORT NUMBER: KK1903A

DATE: 01/05/88

TITLE: Evaluation of Parker Compound S1138-70 per FDA requirements.
PURPOSE: To determine if S1138-70 meets the requirements and obtain general data.
CONCLUSION: Compound S1138-70 meets the requirements.

Recommended temperature limits: -60⁰F 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: KB4403

	S1138-70 Platen Results
<u>Basic Physical Properties</u>	
Hardness	70
Tensile Strength, psi min	1025
Elongation, %	175
Modulus @ 100%, psi	675
Specific Gravity	1.41
<u>Fluid Immersion, Butteroil,</u> <u>22 HRS @ 158⁰F</u>	
Hardness Change, pts	-4
Weight Change, %	+0.6
Volume Change, %	+0.8
<u>Fluid Immersion, Water,</u> <u>22 HRS @ 158⁰F</u>	
Hardness Change, pts	-1
Weight Change, %	+1.1
Volume Change, %	+1.3
<u>Temperature Retraction</u>	
TR10 ⁰ F	-41
<u>Hexan Extraction</u>	
7 HRS @ 154 ⁰ F, mg/in ²	Pass
2 HRS @ 154 ⁰ F, mg/in ²	Pass