



## MATERIAL REPORT

REPORT NUMBER: DD4005  
DATE: 02/13/90

**TITLE:** Evaluation of Low Temperature Parker Compound S0383-70 to ZZ-R-765C Class 2A Grade 70

**PURPOSE:** To determine if S0383-70 meets the requirements.

**CONCLUSION:** Compound S0383-70 meets the requirements.

Recommended temperature limits: -175<sup>0</sup>F to 400<sup>0</sup>F

Recommended For

Dry heat

Some petroleum oils

Moderate water resistance

Fire resistant hydraulic fluids (HFD-R and HFD-S)

Ozone, aging, and weather resistance

Extreme Low temperature

Not Recommended For

Ketones

Acids

Silicone oils

Auto and aircraft brake fluid



### REPORT DATA

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	<b>ZZ-R-765C Class 2A</b> Pass / Fail Limits	<b>S0383-70</b> Slab Results
<u>Basic Physical Properties</u>		
Hardness	70 +/- 5	67
Tensile Strength, psi	650	1240
Elongation, %	125	242
Modulus @ 100%, psi	NR	669
Specific Gravity	NR	1.27
<u>ASTM D573 Heat Aging, 70 H @ 437°F</u>		
Hardness Change, pts	+/-10	+5
Tensile Change, % max	-20	-5
Elongation Change, % max	-40	-19
<u>Compression Set, 70 HRS @ 302°F</u>		
% of Original Deflection, max	40	15
<u>Fluid Immersion, ASTM #1 Oil, 70 H @ 302°F</u>		
Hardness Change, pts	-15 to +5	-9
Tensile Change, % max	-20	-3
Elongation Change, % max	-15	-1
Volume Change, % max	+15	+9
<u>Low Temp Brittleness ASTM D2137 Method A 3 MIN @ -80°F</u>	Pass	Pass