MATERIAL REPORT

ESP ENGINEERED SEAL PRODUCTS® 100% Employee-Owned
CONTACT US

DATE: 12/26/2002

TITLE: Evaluation of Parker Compound E1267-80 to aerospace specification NAS1613 Rev. 4.

PURPOSE: To determine if Parker Compound E1267-80 meets all phases of the above specification

CONCLUSION: E1267-80 meets or exceeds all phases of the above 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

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Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA

Testing per NAS-1613 (Rev. 4) TEST DESCRIPTION	REQUIREMENT	E1267-80 Class 1 Type 4, Low Density Chevron HyJet IV-A +	Class 2 Type 4, High Density Skydrol 500 B-4	Class 1 Type, Low Density Skydrol LD-5
SPECIFIC GRAVITY	observed value	1.19	1.19	1.19
DUROMETER HARDNESS (SHORE A)				
-NO SOAK (as furnished)	observed value	80	80	80
-22 hours at 250 deg in Fluid	-10 pts	-7	-4	-9
-70 hours at 160 deg in Fluid	- 5 pts	-3	-2	-5
-70 hours at 250 deg in Fluid	-12 pts	-8	-5	-8
-670 hours at 225 deg in Fluid	-15 pts	-7	-5	-7
VOLUME SWELL (%)				
*.040-.103 size				
-22 hours at 250 deg in Fluid	0-15 %	11.1	7.5	11.7
-70 hours at 160 deg in Fluid	0-10 %	6.2	4.4	5.2
*116-.275 size				
-22 hours at 250 deg in Fluid	0-15 %	12.1	8.1	12.1
-70 hours at 160 deg in Fluid	0-08 %	7.2	4.3	2.7
-70 hours at 250 deg in Fluid	0-15 %	11.7	8.1	11.6
-334 hours at 225 deg in Fluid	0-17 %	12.8	8.7	10.7
-670 hours at 225 deg in Fluid	0-17 %	13.1	8.7	9.8
TENSILE AND ELONGATION (psi-%)				
-NO SOAK (as furnished)	1400 psi at 125%	1734 at 162	1734 at 162	1734 at 162
-22 hours at 250 deg in Fluid	1350 psi at 125%	1498 at 148	1580 at 150	1768 at 180
-70 hours at 250 deg in Fluid	1300 psi at 125%	1480 at 145	1600 at 148	1571 at 171
-334 hours at 225 deg in Fluid	1200 psi at 125%	1460 at 132	1500 at 153	1583 at 171
COLD TEMPERATURE RETRACTION (deg F)				
-TR-10	-50	-53.5	-53.5	-53.5
-TR-70	-18	-22.5	-22.5	-22.5
COMPRESSION SET (%)				
-NO SOAK, 22 hours at 250 deg in air	30%	8.4	8.4	8.4
-22 hours at 250 deg in Fluid	20%	2.5	3.8	1.1
-70 hours at 160 deg in Fluid	20%	1.4	3.1	6.6
HIGH TEMPERATURE AIR AGING (Shore A)				

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-70 hours at 300 deg				
-Durometer hardness (Shore A)	+10	+4	+4	+4
-Tensile & elongation (psi/%)	-25/-10	-8/-4	-8/-4	-8/-4
MODULUS (psi)	800	885	885	885
CORROSION AND ADHESION	PASS/FAIL	Pass	Pass	Pass

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