COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Report Number: 87005
Test Date: 5/30/2012

Title: Evaluation of Parker Compound S0604-70

Elastomer Type: Silicone (VMQ, PVMQ)

Purpose: Testing to MIL-G-21569

Specification: MIL-G-21569

Color: Rust

Recommended Temperature Range: -65°F to 450°F

Recommended For: Animal, Vegetable oil, grease, high molecular weight chlorinated aromatic hydrocarbons (including flame resistant insulators, and coolant for transformers), moderate weather resistance, diluted salt solutions, and ozone.

Not Recommended For: Superheated water/steam over 250°F, acids and alkalis, low molecular weight chlorinated hydrocarbons, hydrocarbon based fuels, aromatic hydrocarbons (benzene, toluene), and low molecular weight silicone oils.

Additional Approvals:
AMS 3304
AMS 3357
MIL-G-21569 Class 2
A-A-59588 Class 2a, 2b, grade 70
UL Approval

Original Physical Properties	**Test Method**	**Spec Limits**	**Results**
Hardness, Shore A, pts	ASTM D2240	65 ± 10	70
Tensile Strength, psi, Min	ASTM D412	500	1214
Ultimate Elongation, % Min	ASTM D412	120	190
Specific Gravity	ASTM D297	1.43 ± 0.03	1.41
Compression Set			
336 hrs @ 90°C (194°F)			
Percent of Original Deflect, Max	ASTM D395 Method B	25	10
Dry Heat Resistance	ASTM D573		
336 hrs @ 90°C (194°F)			
Tensile Strength Change, % of initial, Min		75	101
Fluid Immersion	ASTM D471		
IRM 902, 94 hrs @ 90°C (194°F)			
Tensile Strength Change, % of initial, Min		50	99
Volume Change		0 to +15	+4
Fluid Immersion	ASTM D471		
Distilled Water, 336 hrs at 90°C (194°F)			
Tensile Strength Change, % of initial, Min		65	94
Volume Change		0 to +15	0