Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KA8243
DATE: 10/30/90

TITLE: Evaluation of Parker Compound N0506-65 to Requirements of Specification AMS 7271G.

PURPOSE: To document conformance of first article testing.

CONCLUSION: Parker compound N0506-65 meets the requirements of specification AMS 7271G.

Recommended Temperature Range: -70 to 180F

Recommended for: petroleum oils, water (up to 212F), Salt & Alkali solutions, weak acids

Not Recommended for: aromatic fuels, strong acids, glycols, ozone, polar solvents

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40512
(859) 269-2351

Request a Quote

REPORT DATA

Report Number: KA8243

		COMPOUND: N0506-65 SIZE: 0023-9070GOVT/2- KA: 8243 B/N: 813332
	AMS 7271G	
AS RECEIVED	SPECIFICATION	RESULTS
Hardness, Duro 'A'	60 - 70	66
Tensile Strength, psi., min.	1200	1284
Elongation, % min.	0	252
Specific Gravity	Report	1.24
Corrosion	Nil	None
AROMATIC AND NON-AROMATIC FUEL		
Fuel A, 70 hrs. @ 68 - 86°F		
Volume Change, % max.	Positive swell	+20
FUEL B, 70 HRS. @ 68 - 86°F		
VOLUME CHANGE, % max.	+40 to +70	+60
DRY OUT, 48 HRS. @ 158°F ± 2°		
VOLUME CHANGE, % max.	-15	-12
FUEL A, 5 HRS. @ 68 - 86°F		
VOLUME CHANGE, % max.	-5	+7
LOW TEMPERATURE FLEXIBILITY		
As received, 5 hrs. @ -58°F	Pass	Pass
AFTER AROMATIC FUEL AND DRY,		
5 HRS. @ -53°F	Pass	Pass
DRY HEAT RESISTANCE		
70 HRS. @ 257°F +5°		
Hardness Change	0 to 15	+11 (77)
Tensile Strength Change, % max.	-25	+2 (1311)
Elongation Change, % max.	-50	-33 (169)
Bend (Flat)	No cracking or checking	No cracking or checking
COMPRESSION SET,		
70 HRS. A 257°F + 5°		
% of original deflection, max.		
ring cross section diameter, inch		
0.066 to 0.110, incl.	85	76
over 0.110	75	
SIMULATED COMPONENT TEST	Pass	Pass
DRY NECKDOWN TEST	Pass	Pass
WET NECKDOWN TEST	Pass	Pass