



O-Ring Division
 2360 Palumbo Drive
 Lexington, KY 40509
 (859) 269-2351

Date: 9/26/2007
 Compound: NM506
 Batch: 80063384
 Part Size: 2-214
 Specification: AMS-7271 H
 Customer:
 Test Lab Location: LEXINGTON
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LABORATORY TEST REPORT

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec. Limits</u>	<u>Test Results</u>
Hardness, Shore A, pts.	ASTM D2240	65±5	64
Tensile Strength, psi.min	ASTM D1414	1200	1749
Ultimate Elongation, % min	ASTM D1414	200	364
Specific Gravity	ASTM D297	+0.02	1.24
Corrosion	ASTM D1414	Nil	Nil
<u>Aromatic and Non-Aromatic Fuel:</u>			
Fuel A, 70 hrs @ 68-86°F	ASTM D471	Positive Swell	+11
Fuel B, 70 hrs @ 68-86°F			
Volume Change % max		+40 to +70	+59
Dry Out, 48 hrs @ 158°F (after 70 hr @ R.T. Fuel B)			
Volume change % max.		-15	-10
Fuel A, 5 hrs @ 68-86°F (after 48 hr dryout)			
Volume Change % max.		-5	-1
<u>Compression Set</u>			
<u>70 hrs. @ 257°F</u>			
Percent of Original Deflection, % max	ASTM D395 Method B		
Ring Cross Section Diameter, inch			
0.066 to 0.110, in., incl.		85	-
Over 0.110 in.		75	64
<u>Dry Heat Resistance</u>			
<u>70 hrs. @ 257°F</u>			
Hardness Change, Shore A, pts	ASTM D573	0 to +15	+10
Tensile Strength Change, % max.		-25	+27
Elongation Change, % max.		-50	-36
Bend (Flat)		No Cracking or Checking	No Cracking or Checking
<u>Simulated Component Test:</u>			
	AMS 7271 H	Pass	Pass
	** See Attached Report		
<u>Dry Neckdown Test:</u>			
	AMS 7271 H	Pass	Pass
<u>Wet Neckdown Test:</u>			
	AMS 7271 H	Pass	Pass
<u>Low Temperature Flexibility</u>			
As Received, Max. -50°C (-58°F)		Pass	Pass
After immersion in Aromatic fuel and drying, max. -47°C (-53°F)		Pass	Pass

"Purchaser use only. Reproduce only in full. Data pertains to items referenced only."
 "The recording of false, fictitious, or fraudulent statements or entries on this report may be punishable as a felony under federal law."

**ATTACHED TEST REPORT

Tested By: 
 Tammy Blount, Laboratory Technician II

Approved By: 
 Linda Ziegler, Division Technical Director