



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

Date: 4/25/2006
 Compound: VM835-75

Part Size: 2-214
 Specification: AMS-R-83485
 Customer:
 Test Lab Location: LEXINGTON
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LABORATORY TEST REPORT

<u>Original Physical Properties</u>	Test Method	Spec Limits	Test Results
Hardness, Shore A, pts.	ASTM D2240	75±5	79
Tensile Strength, psi	ASTM D412	1800	2458
Ultimate Elongation, %	ASTM D412	120	205
Specific Gravity	ASTM D297	As Determined	1.78
<u>Compression Set</u>			
70 hrs. @ 75°F			
Percent of Original Deflection, max	ASTM D395 Method B	25	7
<u>Fluid Immersion</u>			
<u>TT-S-735 Type III, (70 hrs. @ 75°F)</u>			
Hardness Change, Shore A pts.	ASTM D471	±5	-1
Tensile Strength Change, %		30	-18
Ultimate Elongation Change, %		20	-6
Volume Change, %		1 to 10	+2
<u>Dry Heat Resistance</u>			
<u>(70 hrs. @ 528°F)</u>			
Hardness Change, pts.	ASTM D573	±5	+4
Tensile Change, %		35	-35
Elongation Change, %		10	-8
Weight Loss, %, max		12	6
<u>Compression Set</u>			
168 hrs. @ 347°F			
Percent of Original Deflection, max	ASTM D395 Method B	25	19
<u>Compression Set</u>			
22 hrs. @ 392°F			
Percent of Original Deflection, max	ASTM D395 Method B	20	12
<u>Fluid Immersion</u>			
<u>Blend 7700, (70 hrs. @ 347°F)</u>			
Hardness Change, Shore A pts.	ASTM D471	-15 to 0	-4
Tensile Strength Change, %		35	-14
Ultimate Elongation Change, %		20	+5
Volume Change, %		1 to 20	13
<u>Compression Set</u>			
Percent of Original Deflection, max		10	8
<u>Compression Set, 18 hr cool down in the bar</u>			
Percent of Original Deflection, max		n/a	24
<u>Low Temperature Retraction, 10%</u>			
(TR-10), °F, max	ASTM D2137	-20	-24

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 "The recording of false, fictitious, or fraudulent statements or entries on this report may be punishable as a felony under federal law."

Tested By: 
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Approved By: 
 Linda Ziegler, Division Technical Director