Akron Rubber Development Laboratory, Inc.



TEST CERTIFICATE

This document certifies Chemraz® 526 FFKM

From

Greene, Tweed & Co.



the technical requirements for Fluid Aging

In accordance with Annex A, ISO 23936-2, 2011 Edition and NORSOK M-710, Rev.3

Test Gas Classification	A.5 (A.1.ii and A.3.ii)		
	Multi-Phase High H ₂ S Sour Gas Aromatic Fluid Mix		
Test Temperature	175°C, 190°C, and 205°C		
Initial Charge Pressure	6.0 +/- 0.5 MPa (870 +/- 72 psi)		
Test Specimen	Type 2 ISO 37 test specimens		
Operational Service			
Temperature	160°C		
Classification			

Prepared By:

David Nuss Staff Engineer ARDL Engineering Approved By:

John Meser Manager ARDL Engineering



An A2LA Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02 ISO 9001:2008 Registered

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ARDL verifies that Chemraz $^{\circ}$ 526 FFKM Type 2 ISO 37 test specimens, supplied by Greene, Tweed & Co., have been subjected to ISO 23936-2 Annex A and NORSOK M-710 Rev 3 test specifications with no failures during the 42 day aging test.

Property	Measured	Allowable Change	Source	Comment
% Change Volume min/max	+0.6%/+6.3%	-5/ +25%	ISO 23936-2 NORSOK M-710	No failures during aging test
Hardness min/max	-4.6/-2.8 (points)	-20/+5 Points	ISO 23936-2 NORSOK M-710	No failures during aging test
% Change 50% Modulus min/max	-9.0%/+2.6%	±50%	ISO 23936-2 NORSOK M-710	No failures during aging test
% Change 100% Modulus min/max	NA	±50%	ISO 23936-2 NORSOK M-710	Failures reported during aging test
% Change Peak Stress min/max	-12.8%/+0.2%	±50%	ISO 23936-2 NORSOK M-710	No failures during aging test
% Change Elongation min/max	-7.6%/+6.4%	±50%	ISO 23936-2 NORSOK M-710	No failures during aging test

The results indicate that the material is resistant to the simulated fluid media specific herein. The Chemraz[®] 526 FFKM Elastomer PASSED the full requirements of Annex A per ISO 23936-2 and Norsok M710 Rev 3, under the stated conditions.

David Nuss Staff Engineer ARDL Engineering John Meser Manager ARDL Engineering