



# COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

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## MATERIAL REPORT

LTR: 100713

Test Date: 3/11/2014

Report Date: 9/21/2017

**Title:** Evaluation of Parker Compound VP103-95 (AFLAS)

**Purpose:** To establish general data review.

**Color:** Black

**Recommended Temperature Range:** 25°F to 450°F

**Recommended For:** Bases, sour oil & gas, steam, phosphate esters, amines, petroleum oils, acids, ozone, alcohols

**Not Recommended For:** Aromatic fuels, ketones, carbon tetrachloride, ethers, non-polar solvents, acetic acid, organic acetates

**Additional Approvals:** None

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

# REPORT DATA

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Results</u>
Hardness, Shore A, pts.	ASTM D2240	92
Tensile Strength, PSI, min	ASTM D412	2755
Ultimate Elongation, %, min	ASTM D412	128
Specific Gravity	ASTM D297	1.6
 <b><u>Tear Strength, Die B</u></b>		
PPI, min	ASTM D624	281
 <b><u>Tear Strength, Die C</u></b>		
PPI, min	ASTM D624	168
 <b><u>Compression Set</u></b>		
<b><u>70 hrs. @ 200°C</u></b>		
Percent of Original Deflection, max	ASTM D395 Method B	52
 <b><u>Dry Heat Resistance</u></b>		
<b><u>70 hrs @ 200°C</u></b>		
Hardness Change, pts.	ASTM D573	+2
Tensile Change, %		+15
Elongation Change, %		-15
 <b><u>Fluid Immersion</u></b>		
<b><u>Distilled Water, 70 hrs @ 150°C</u></b>		
Hardness Change, pts.	ASTM D471	-1
Tensile Change, %		-6
Elongation Change, %		+18
Volume Change, %		+7
 <b><u>Fluid Immersion</u></b>		
<b><u>IRM 903 Oil, 70 hrs @ 200°C</u></b>		
Hardness Change, pts.	ASTM D471	-9
Tensile Strength Change, %		-14
Elongation Change, %		+28
Volume Change, %		+21