



## **VITON 75 DUROMETER CORD STOCK**

# **DATA SHEET FOR COMPOUND V75 CORD**

### **Compound Features:**

- Meets MIL-R-83248C TYPE 2 CLASS 1
- Excellent resistance to petroleum products.
- Excellent fuel resistance.
- Excellent resistance to acids, chemicals, and solvents.
- Excellent resistance to weathering, ozone, and UV/sunlight.
- Works well with silicone grease or oil lubricants.
- Works well with diester lubricants.
- Good abrasion and wear resistance.
- Excellent compression set resistance.
- Excellent permeation resistance.

### **Compound Limitations:**

- Poor resistance to hot water and steam.
- Poor resistance to automotive and aircraft brake fluids.
- Poor resistance to ketones (MEK).
- Poor resistance to amines.
- Poor resistance to low molecular esters and ethers.

### **Temperature Range:**

Constant: -10°F to +400°F (-23°C to +204°C)

Intermittent: -20°F to +600°F (-28°C to +315.6°C)

### **ASTM Callout:**

M6HK 710 A1-10 B38 C12 EF31 F15 Z1

Z1= 75+/-5 SHORE A HARDNESS

### **Recommended Shelf Life:**

Unlimited

# The O-Ring Store LLC



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ORIGINAL PROPERTIES						
Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Durometer	-	D2240	Shore A	75 ± 5	75± 5	78
Tensile Strength		D412	PSI	1600	1450	1934
Elongation Resistance		D412	%	125	175	196

HEAT RESISTANCE						
Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Durometer Change	A1-10	ASTM D573 70 Hours @ 250°C	Shore A	-5 to +10 Max	+10 Max	+4
Tensile Strength Change			%	-35 Max	-25 Max	-5
Elongation Resistance Change			%	-15 Max	-25 Max	+7

COMPRESSION SET						
Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Original Deflection	B38	ASTM D395 B 22 Hours @ 200°C	%	-	15 Max	5.6

COMPRESSION SET						
Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Original Deflection	-	ASTM D395 B 336 Hours @ 200°C	%	45 Max	-	32.4

OZONE RESISTANCE						
Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Quality Retention	C12	D1171	Pass/Fail	-	No Cracks	Pass

FLUID RESISTANCE – REFERENCE FUEL C						
Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Durometer Change	EF31	ASTM D471 70 Hours @ 23°C	Shore A	-	± 5	-1
Tensile Strength Change			%	-	-25 Max	-8
Elongation Resistance Change			%	-	-20 Max	-7.5
Change in Volume			%	-	0 to +10	+4

Information within is believed to be accurate and reliable. However, The O-Ring Store, LLC makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate the material prior to use.

**1847 Wilma DR - Clarkston, WA 99403 | Phone (208) 413-6377 Fax (208) 413-6719**

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## FLUID RESISTANCE – ARM-200

Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Durometer Change	-	ASTM D471 70 Hours @ 200°C	Shore A	0 to -10	-	-122
Tensile Strength Change			%	-35 Max	-	-21
Elongation Resistance Change			%	-20 Max	-	+4
Change in Volume			%	+1 to +25	-	+17.8
Compression Set Resistance Change			%	20 Max	-	11.3

## FLUID RESISTANCE – REFERENCE FUEL B

Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Durometer Change	-	ASTM D471 70 Hours @ 23°C	Shore A	± 5	-	-122
Tensile Strength Change			%	-20 Max	-	-21
Elongation Resistance Change			%	-20 Max	-	+4
Change in Volume			%	0 to +5	-	+17.8

## LOW TEMPERATURE RESISTANCE

Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Brittle Point	F17	D2137 3 Min @ -25°C	Pass/Fail		Non-Brittle	Pass

## LOW TEMPERATURE RESISTANCE

Properties	ASTM Designation	Test Method	Unit of Measure	MIL-R-83248C Specification	ASTM D2000 Specification	V75 CORD Compound Property
Temperature Retraction	TR-10	D1329	°F	+5 Max	-	+2

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