

The O-Ring Store LLC



We make getting o-rings easy!

MIL-SPEC VITON 75 DUROMETER DATA SHEET FOR COMPOUND V75-MS

Compound Features:

- Meets popular military specifications (See page 2)
- 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 di-ester 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:

-13°F to +482°F (-25°C to +250°C)

ASTM Callout:

M6HK710 A110 B38 EF31 EO88 F15 Z1

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Military Specifications Met

Old Specifications:

- AMS7278
- AMS7280
- AMS-R-83248 CL1
- MIL-R-83248 CL1

New Specifications:

- AMS7276
- AMS3216

Old Drawings:

M83248/1
MS9388
MS9387
AS3084
AS3085

New Drawings:

AS3208
AS3209

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ORIGINAL PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
Durometer	-	-	Shore A	75± 5	74
Tensile Strength			MPa	9.65 Min	12
Elongation Resistance			%	125	184
Specific Gravity			-	Report	1.84

FLUID AGING PROPERTIES – FUEL B					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
Durometer Change	-	70 Hours @ 23°C	Shore A	-5 to +5	+4
Tensile Strength Change			%	-20 Max	-10
Elongation Resistance Change			%	-20 Max	-4
Volume Change			%	0 to +5	+1

FLUID AGING PROPERTIES – AMS 3023					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
Durometer Change	-	70 Hours @ 200°C	Shore A	-15 to 0	-9
Tensile Strength Change			%	-35 Max	-23
Elongation Resistance Change			%	-20 Max	-18
Volume Change			%	+1 to +25	+19

FLUID AGING PROPERTIES – COMPRESSION SET WITH AMS 3023					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
.066" to .110" Inclusive Max	-	22 Hours @ 200°C	-	-	-
Over .110" Max			%	15	8

HEAT AGING PROPERTIES					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
Durometer Change	-	70 Hours @ 270°C	Shore A	-5 to +10	+1
Tensile Strength Change			%	-35 Max	-2
Elongation Resistance Change			%	-15 Max	-5
Change in Weight			%	-10 Max	-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.

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COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
.066" to .110" Inclusive Max	-	22 Hours @ 200°C	%	20 Max	-
Over .110" Max	-		%	15 Max	8

COMPRESSION SET					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
.066" to .110" Inclusive Max	-	336 Hours @ 200°C	%	45 Max	-
Over .110" Max	-		%	40 Max	32

TR-10 LOW TEMPERATURE RESISTANCE					
Properties	ASTM Designation	Test Method	Unit of Measure	ASTM D2000 Specification	V75-MS METRIC Compound Property
TR-10	-	-	°C	-15	-17

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