



## Overview

VT90BK90 is Canyon's AMS-7259, MIL-R-83248A, 90 shore A durometer, black FKM Type A. This is an extremely popular MIL spec material. Other FKM types are also available: A, B, F, GF, GLT, GFLT, ULT, ETP. Compare to Parker V0709-90 and VA153-90.

## Features & Benefits

- Great heat resistance & high temp stability
- Excellent chemical resistance
- Excellent resistance to weathering, aging, and extrusion

## Service Temperature

- -26°C to 225°C (-15°F to 437°F)

## Specification

- AMS-7259, MIL-R-83248A Ty 1 Cl 2

## Test Data

**Table 1. Physical Properties**

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	90+/-5	90
Tensile Strength, psi (MPa)	1400 min	2000 (13.7)
Elongation	100% min	125%
Specific Gravity, g/cm <sup>3</sup>		1.84
TR-10, °F	+5 max	+3



**Table 2. Heat Aging – 70 hrs at 270°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +10	+2
Tensile Strength, %	-45 max	-9
Elongation, %	-20 max	+10
Weight, %	+10 max	3.5

**Table 3. Compression Set – Permanent Set, %**

Test (Change)	Requirements	Results
22 hrs at 200°C	25 max	11
336 hrs at 200°C	60 max	43
70 hrs at 200°C – ARM-200 Fluid	20 max	7

**Table 4. ARM-200 Resistance – 70 hrs at 200°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-10
Tensile Strength, %	-35 max	-14
Elongation, %	-20 max	+9
Volume, %	+1 to +25	+15

**Table 5. ASTM Fuel B Resistance – 70 hrs at 21°C**

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +5	-1
Tensile Strength, %	-20 max	-6
Elongation, %	-20 max	-1
Volume, %	0 to +5	+1