



Overview

NB70BK51 is Canyon's Military Spec, MS28775, MIL-P-25732, AMS-P-25732 QPL, 70 shore A durometer, black NBR. This is a very popular Mil-Spec material. Compare to Parker N0304-75.

Features & Benefits

- Meets MS28775, MIL-P-25732, and AMS-P-25732
- Improved low temperature and high temperature performance
- Good abrasion resistance
- Low Compression Set
- Cost Effective

Service Temperature

- -55°C to 135°C (-67°F to 275°F)

Specification

- MS28775, MIL-P-25732, AMS-P-25732

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	68 min	72
Tensile Strength, psi (MPa)	1350 min	2175 (15)
Elongation	160% min	260%
Modulus @ 100%, psi (MPa)	500 min	590 (4.07)
TR-10, °C	-45 or colder	-46
Specific Gravity, g/cm ³		1.28



Table 2. Compression Set - Permanent %

Test (Change)	Requirements	Results
70 hrs at 135°C in MIL-H-5606 Fluid, Set %	55 max	20
70 hrs at 135°C in MIL-H-83282 Fluid, Set %	55 max	24

Table 3. TR-10 After Fluid Immersion

Test (Change)	Requirements	Results
70 hrs at 135°C in MIL-H-5606 Fluid, TR-10 °C	-49 or colder	-50
70 hrs at 135°C in MIL-H-83282 Fluid, TR-10 °C	-47 or colder	-48

Table 4. MIL-H-5606 Immersion - 70 hrs at 135°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to +5	-10
Tensile Strength, %	-50 max	-16
Elongation, %	-35 max	-6
Volume, %	+1 to +20	+14

Table 5. MIL-H-83282 Immersion - 70 hrs at 135°C

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	-2
Tensile Strength, %	-40 max	-9
Elongation, %	-45 max	-22
Volume, %	-0.5 to +15	+1

NB70BK51 is now available on the Canyon Components [online store!](#)