

The O-Ring Store LLC



We make getting o-rings easy!

BUNA-N 90 DISHED BACKUP RINGS DATA SHEET FOR COMPOUND N8-90

Compound Features:

- 90 durometer for high pressure applications.
- Contoured to fit the corresponding AS568 ORing perfectly.
- Excellent resistance to petroleum products.
- Excellent water resistance.
- Resistance to ethylene glycol fluids.
- Works well with silicone grease or oil lubricants.
- Good low temperature flexibility.
- Good abrasion and wear resistance.
- Good compression set.
- Good Permeation resilience.

Compound Limitations:

- Poor resistance to UV/sunlight, ozone, and weathering.
- Halogenated hydrocarbons.
- Poor resistance to ketones (MEK) and other strong solvents.
- Poor resistance to strong acids.
- Poor resistance to automotive and aircraft brake fluids.

Temperature Range:

-40°F to +250°F (-40°C to +121°C)

ASTM Callout:

ASTM D2000 M1BG910

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| ORIGINAL PROPERTIES | | | | | |
|-----------------------|------------------|-------------|-----------------|--------------------------|-------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | N8-90 Compound Property |
| Durometer | - | - | Shore A | 90± 5 | 90 |
| Tensile Strength | | | MPa | 1450 | 2440 |
| Elongation Resistance | | | % | 100 | 129 |

| HEAT RESISTANCE | | | | | |
|------------------------------|------------------|----------------------------------|-----------------|--------------------------|-------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | N8-90 Compound Property |
| Durometer Change | - | ASTM D573 70 Hours @ 100°C | Shore A | ±15 | +3 |
| Tensile Strength Change | | | % | ±30 | +2 |
| Elongation Resistance Change | | | % | -50 | -29 |

| COMPRESSION SET | | | | | |
|---------------------|------------------|------------------------------------|-----------------|--------------------------|-------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | N8-90 Compound Property |
| Original Deflection | - | ASTM D395 B 22 Hours @ 100°C | % | 50 Max | 8.3 |

| FLUID RESISTANCE – IRM 903 OIL | | | | | |
|--------------------------------|------------------|----------------------------|-----------------|--------------------------|-------------------------|
| Properties | ASTM Designation | Test Method | Unit of Measure | ASTM D2000 Specification | N8-90 Compound Property |
| Original Deflection | - | D471 70 hours @100°C | °C | +40 | +7.7 |

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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