



NITRILE



Standard Compounds for Machined Seal

Nitrile seals are the most widely used material in the world because of low cost, good mechanical performance with resistance to water, most basic oils, lubricants and some fuels, many pneumatic, hydraulic systems, and the default choice for basic applications.

Nitriles are not recommended for exposure to sunlight, UV light, ozone and general outdoor weathering or harsh chemicals, acids, ketones and many others.

| Compound | --- | S24 N02 | S24 N01 | S24 N03 | S24 N04 |
|--|----------|--|-----------------|-----------------|-----------------|
| Features | --- | General Purpose - High Pressure Applications Compare To N01 | General Purpose | Color Off White | Low Temperature |
| Color | --- | Black | Black | White | Black |
| Hardness ISO 868 | Shore A | 85A | 75A | 85A | 80A |
| Minimum Temperature | °F | -22 | -22 | -22 | -50 |
| Maximum Temperature | °F | 230 | 194 | 230 | 230 |
| Modulus @ 100% DIN 53504 | psi | ≥ 1595 | ≥ 1015 | ≥ 1160 | ≥ 1305 |
| Tensile Strength DIN 53504 | psi | ≥ 2465 | ≥ 2320 | ≥ 1450 | ≥ 2031 |
| Elongation @ Break DIN 53504 | % | ≥ 150 | ≥ 190 | ≥ 200 | ≥ 140 |
| Tear Strength DIN ISO 34-1 | lbf/inch | ≥ 102 | ≥ 28 | ≥ 102 | ≥ 85 |



NITRILE



Standard Compounds for Machined Seal

| Compound | --- | S24 N02 | S24 N01 | S24 N03 | S24 N04 |
|---|-------------------|---------|---------|---------|---------|
| Specific Gravity ISO 1183 | g/cm ³ | 1.28 | 1.23 | 1.44 | 1.27 |
| Rebound Elasticity DIN 53512 | % | 20 | 28 | 23 | 50 |
| Abrasion DIN 53516 | mm ² | 100 | 132 | 140 | --- |
| Compression Set ISO 815 24h 158 °F 25% def | % | ≤ 5 | ≤ 5 | ≤ 7 | ≤ 6 |
| Compression Set ISO 815 24h 212 °F 25% def | % | ≤ 6 | ≤ 8 | ≤ 9 | ≤ 9 |
| Compression Set ISO 815 24h 302 °F 25% def | % | --- | --- | --- | --- |

TEST DATA ONLY - DO NOT USE FOR SPECIFICATION

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability or the accuracy of this information or the suitability of our products in any specific application. Users of our products should make their own tests to determine the suitability of each such product for their particular purposes. The products discussed are sold without warranty, either expressed or implied, and buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent.