USASEALING ZUSA-RC-605

Instruction Manual

USA SEALING ZUSA-RC-605 Buna-N Cord Stock

Model: ZUSA-RC-605 | Brand: USASEALING

Product Overview

The USA SEALING ZUSA-RC-605 Buna-N Cord Stock is a versatile sealing material designed for various industrial applications. Its square profile minimizes compression requirements for effective sealing and prevents rolling or twisting in dynamic environments. Made from Buna-N (Nitrile), a widely recognized O-Ring material, it offers excellent strength and durability. This cord stock is compatible with a broad spectrum of fluids, including oils, water, and mild chemicals.



Image: A segment of the black square Buna-N cord stock, highlighting its precise square cross-section and smooth finish. This material is commonly used for creating custom seals and gaskets.

Setup and Preparation

Proper preparation is crucial for optimal performance and longevity of the Buna-N cord stock. Follow these guidelines:

- **Surface Cleaning:** Ensure all mating surfaces are clean, dry, and free from grease, dirt, or any foreign particles. A clean surface promotes better adhesion and sealing.
- **Cutting:** Use a sharp, clean cutting tool (e.g., a razor blade or specialized cord cutter) to achieve precise, perpendicular cuts. Irregular cuts can compromise the seal integrity.
- **Length Measurement:** Accurately measure the required length for your application. For O-rings or custom gaskets, consider the compression and stretch needed for a snug fit.
- **Joining (if applicable):** If creating a custom O-ring, use an appropriate adhesive designed for Buna-N or Nitrile rubber. Ensure the joint is clean and cured according to the adhesive manufacturer's instructions.

Operating Guidelines

The Buna-N cord stock is designed for static and some dynamic sealing applications. Its square profile offers advantages in specific scenarios:

- **Sealing Mechanism:** The square cross-section requires less compression to form an effective seal compared to round O-rings, making it suitable for applications with limited compression force.
- **Anti-Roll/Anti-Twist:** In moving or reciprocating applications, the square profile helps prevent the cord from rolling or twisting within its groove, enhancing seal stability and longevity.
- **Fluid Compatibility:** This material is highly resistant to petroleum-based oils and fuels, silicone greases and oils, hydraulic fluids, and water. Avoid exposure to strong acids, ketones, halogenated hydrocarbons, and ozone.
- **Temperature Range:** Operate within the specified temperature range of 0°F to 210°F (-17.8°C to 98.9°C) to maintain material integrity and sealing performance.

Maintenance and Storage

Proper maintenance and storage extend the lifespan of the Buna-N cord stock:

- **Cleaning:** If the cord stock becomes soiled, clean it with mild soap and water. Avoid harsh solvents or abrasive cleaners that could degrade the material. Rinse thoroughly and dry completely before use or storage.
- **Inspection:** Periodically inspect installed cord stock for signs of wear, cracking, hardening, or swelling. Replace if any degradation is observed to prevent leaks.
- **Storage Conditions:** Store unused cord stock in a cool, dry place away from direct sunlight, UV light, ozone-generating equipment (e.g., electric motors), and extreme temperatures. Keep it in its original packaging or a sealed container to prevent contamination and premature aging.
- **Avoid Stress:** Do not store the cord stock under tension or in a compressed state, as this can lead to permanent deformation.

Troubleshooting

If you encounter issues with the Buna-N cord stock, consider the following:

- **Leakage/Poor Seal:**
  - *Cause:* Improper cutting, incorrect length, insufficient compression, damaged cord, or contaminated sealing surfaces.
  - *Solution:* Re-cut and re-measure, ensure proper compression, inspect for damage and replace if necessary, thoroughly clean surfaces.
- **Material Degradation (Cracking, Hardening, Swelling):**
  - *Cause:* Exposure to incompatible fluids, excessive temperature (too high or too low), ozone exposure, or prolonged UV light.
  - *Solution:* Verify fluid compatibility, ensure operating temperatures are within range, store properly, and replace degraded material.
- **Cord Rolling/Twisting:**
  - *Cause:* Insufficient groove depth, excessive clearance, or improper installation in dynamic applications.
  - *Solution:* Ensure groove dimensions are appropriate for the square profile, and install carefully to prevent initial twisting.

Specifications

Attribute	Detail
Material	Buna-N (Nitrile Rubber)
Cross Section Shape	Square
Cord Size	0.156" (5/32") Cross Section x 10 ft. Long
Durometer	70A
Color	Black
Temperature Range	0° to 210° F (-17.8°C to 98.9°C)
Tensile Strength	725 psi
Manufacturer	USA SEALING INC
UPC	193005475512

Warranty Information

Specific warranty details for the USA SEALING ZUSA-RC-605 Buna-N Cord Stock are not provided in the product information. For warranty inquiries, please contact USASEALING directly or refer to their official website.

Support and Contact

For technical support, additional product information, or assistance with the USA SEALING ZUSA-RC-605 Buna-N Cord Stock, please reach out to the manufacturer, USASEALING. Contact information can typically be found on their official website or through your product supplier.

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