



# DURLON®

## 9002

Inorganic Filler with Pure PTFE Resins  
Filled PTFE Gasket Material  
ASTM F104: F452111-A9B5E11K6M6

Durlon® 9002 is an adaptation of the original glass-filled formula to better meet extreme cryogenic demands and is readily available through the standard manufacturing process and requires no secondary heat or cleansing treatments prior to gasket cutting. Once gaskets are cut, traditional oxygen cleaning standards must be applied for safety.

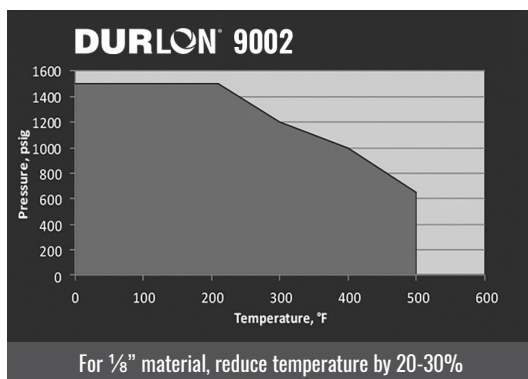
Available as oxygen cleaned gaskets, bagged, labeled, and sealed according to the European Industrial Gases Association standard for Cleaning of Equipment for Oxygen Service.

### INDUSTRY APPLICATIONS:

- Chemical Processing
- Pharmaceutical
- Marine (LNG)
- Cryogenic

### Certifications

|                                                    |                                                                         |
|----------------------------------------------------|-------------------------------------------------------------------------|
| FDA                                                | Conforms to the requirements of 21 CFR 177.1550 for food & drug contact |
| BAM Oxygen Service: Gaseous & Liquid (Test Report) | Up to 260°C (500°F) at 52 bar (754 psi)                                 |
| LOX Mechanical Impact (ASTM G86 & ISO 21010)       | Zero reactions out of 20 at a test reaction frequency of 0%             |
| RoHS Reach Declaration                             | Compliant                                                               |
| DNV-GL                                             | Approved Material                                                       |



### Physical Properties

|                                                  |                       |
|--------------------------------------------------|-----------------------|
| Color                                            | Blue                  |
| Filler System                                    | Inorganic             |
| Temperature:                                     |                       |
| Min                                              | -212°C (-350°F)       |
| Max                                              | 271°C (520°F)         |
| Continuous, Max                                  | 260°C (500°F)         |
| Pressure, Max, bar (psi)                         | 103 (1,500)           |
| Density, g/cc (lbs/ft³)                          | 2.2 (138)             |
| Compressibility, %                               | 8-16                  |
| Recovery, %                                      | 40                    |
| Creep Relaxation, %                              | 30                    |
| Tensile Strength, MPa (psi)                      | 13.8 (2,000)          |
| Nitrogen Sealability<br>ASTM F2378, cc/min       | 0.01                  |
| Volume Resistivity<br>ASTM D257, ohm-cm          | 1.0 x 10 <sup>5</sup> |
| Dielectric Breakdown<br>ASTM D149, kV/mm (V/mil) | 16 (406)              |

### Gasket Factors

|                          | 1/16"        | 1/8"         |
|--------------------------|--------------|--------------|
| m                        | 2.2          | 4.6          |
| Y psi (MPa)              | 1,937 (13.4) | 1,639 (11.3) |
| G <sub>b</sub> psi (MPa) | 639 (4.4)    | 495 (3.4)    |
| a                        | 0.220        | 0.262        |
| G <sub>s</sub> psi (MPa) | 55 (0.379)   | 65 (0.448)   |

**Note:** ASTM properties are based on 1/16" sheet thickness, except ASTM F38 which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties, but should not be used to establish specification limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

**Warning:** Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications stated are typical. No applications should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious injury. Data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained within are subject to change without notice. This edition cancels and obsoletes all previous editions.