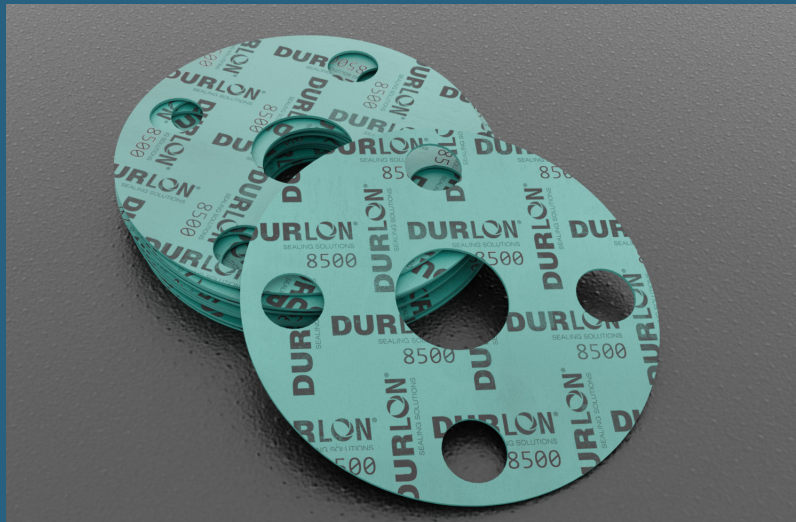




# DURLON® 8500

Aramid/Inorganic with NBR Rubber Binder  
Compressed Non-Asbestos Gasket Material  
ASTM F104: F712120-A9B3E12K5L151M6

A high performance compressed gasket material for use in process industries including pulp & paper, food & beverage, pharmaceutical, hydrocarbon, chemical, refinery and general industry. Durlon® 8500 is suitable for oils, water, steam, new generation refrigerants, dilute acids and alkalis, and many other liquids and gases.

## INDUSTRY APPLICATIONS:

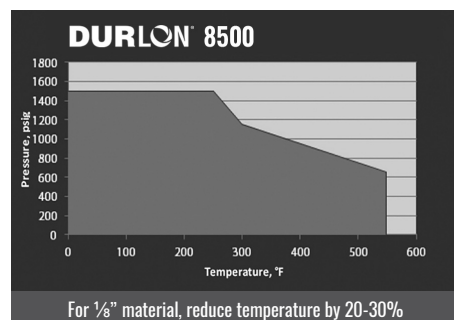
- Chemical Processing
- Food & Beverage
- Mining
- Water & Wastewater
- General/Heavy Industry
- OEM Services
- Petrochemical
- Refining

## BENEFIT:

Durlon® 8500 has a strong dielectric rating, making it ideal for isolation kit applications where compressed fiber gaskets can be utilized.

| Gasket Factors           | 1/16"        | 1/8"         |
|--------------------------|--------------|--------------|
| m                        | 2.7          | 4.2          |
| Y psi (MPa)              | 2,359 (16.3) | 2,931 (20.2) |
| G <sub>p</sub> psi (MPa) | 650 (4.5)    | 400 (2.8)    |
| a                        | 0.33         | 0.35         |
| G <sub>s</sub> psi (MPa) | 200 (1.4)    | 20 (0.1)     |

| Certifications         |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| California Prop 65     | Compliant                                                                       |
| RoHS REACH Declaration | Compliant                                                                       |
| API 6FB Fire Test      | With avg. temp. >650°C, 30 mins, 40 bar, 1 ml (inch/min.) Max allowable leakage |
| FDA                    | Conforms to the requirements of 21 CFR 177.2600                                 |
| ABS                    | Tier 2, PDA Issued                                                              |



**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.

## Physical Properties

|                                                                                                                                                                                      |                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Color                                                                                                                                                                                | Green                                           |
| Fiber System                                                                                                                                                                         | Aramid/Inorganic                                |
| Binder                                                                                                                                                                               | NBR                                             |
| Temperature:<br>Min<br>Max<br>Continuous, Max                                                                                                                                        | -40°C (-40°F)<br>371°C (700°F)<br>287°C (548°F) |
| Pressure, Max, bar (psi)                                                                                                                                                             | 103 (1,500)                                     |
| Density, g/cc (lbs/ft³)                                                                                                                                                              | 1.7 (106)                                       |
| Compressibility, %                                                                                                                                                                   | 8-16                                            |
| Recovery, %                                                                                                                                                                          | 50                                              |
| Creep Relaxation, %                                                                                                                                                                  | 20                                              |
| Tensile Strength, MPa (psi)                                                                                                                                                          | 13.8 (2,000)                                    |
| Nitrogen Sealability<br>ASTM F2378, cc/min                                                                                                                                           | 0.03                                            |
| Fluid Resistance, ASTM F146<br>IRM 903 Oil 5 hrs at 300°F<br>Thickness Increase, %<br>Weight Increase, %<br>ASTM Fuel B 5 hrs at 70°F<br>Thickness Increase, %<br>Weight Increase, % | 0-15<br>15<br>0-10<br>10                        |
| Flexibility, ASTM F147                                                                                                                                                               | 10x                                             |
| Volume Resistivity<br>ASTM D257, ohm-cm                                                                                                                                              | 4.2 x 10 <sup>13</sup>                          |
| Dielectric Breakdown<br>ASTM D149, kV/mm (V/mil)                                                                                                                                     | 11.7 (297)                                      |

**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.