

## DURLON® 9000/9000N

Designed for use in process piping and equipment in chemical, pulp and paper, pharmaceutical, oxygen and industrial gases, food and beverage and other general industrial applications where physical properties such as non-contamination and resistance to highly aggressive chemicals are required. Durlon® 9000 has more consistent physical and mechanical properties and does not have voids, separation and chemical compatibility problems found in layered PTFE.

Typical Physical Properties	
Colour	9000 - Blue 9000N - White
Fiber	Inorganic
Binder	Pure PTFE
Density	2.2 g/cc (138 lbs/cu. ft)
Tensile Strength	
ASTM F152	2000 psi (13.8 MPa)
Compressibility	
ASTM F36	8 to 16%
Recovery	
ASTM F36	40%
Temperature	
Range	-350 to 520°F
Continuous, max	500°F
Pressure, max	1500 psi
Nitrogen Sealability	
ASTM 2378	0.0100 cc/min
Creep Relaxation	
ASTM F38	30%
Fluid Services	Steam, oils, TiO <sub>2</sub> , ClO <sub>2</sub> , liquid chlorine, acids, caustics, H <sub>2</sub> O <sub>2</sub> , liquid oxygen, oleum

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, and should not be used to establish specifications limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

Durlon® 9000 has achieved numerous certifications such as: USP Class VI, FDA compliant, BAM oxygen service, TA-luft (VDI Guideline 2440), ABS & Pamphlet 95, the chlorine institute.

- USP Class VI Certified
- ABS-PDA Certificate (American Bureau of Shipping)
- Complies with (EC)1935/2004 & (EU) 10/2011

Various shapes of inorganic fillers have been homogeneously blended with pure PTFE resins to give Durlon® 9000 its physical and mechanical properties. It is suitable for use in steel flanges and will not exhibit the cold flow problems associated with virgin PTFE or the hardness problems of some other filled PTFE products. Unlike generic glass fibre filled PTFE the shape of the fillers used in Durlon® 9000 do not allow wicking which can cause corrosion on flange surfaces.

### Benefits:

#### Versatile and Reliable Seal

- Recommended for a wider range of severe chemical services than competitive filled PTFE blends
- Maintains a tighter seal than conventional PTFE gasketing
- Has a higher bolt torque retention than other filled PTFE and conventional PTFE gasketing materials
- Listed in Pamphlet 95 of the Chlorine Institute as an acceptable gasket material for chlorine services
- Certified for Oxygen Service by Federal Institute of Materials

#### Testing & Research: Berlin, Germany

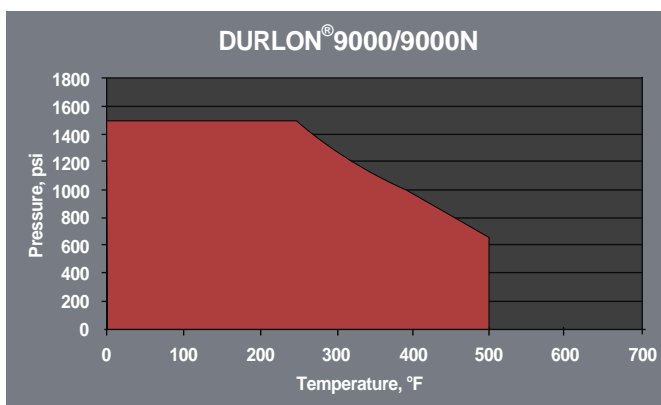
- Conforms to FDA standards
- Exceptional performance in emissions control

#### Sheet Size

- Durlon® 9000 is available in the largest sheet sizes of any conventional or filled PTFE blend gasketing in the industry
- Allows improved yield with less waste
- 60"x60", 60"x120", 60"x180"

#### Cost Saving Technology

- Can readily provide large diameter gaskets at extremely competitive prices.
- Eliminates waste and readily available



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 in this flyer are subject to change without notice. This edition cancels and supersedes all previous editions.

Gasket Factors		
	1/16"	1/8"
m	2.2	4.6
Y, psi	1,937	1,639
Gb, psi	639	400
a	0.220	0.262
Gs, psi	55	65