

# DURLON® 8500

A general-purpose material that contains a unique blend of high strength aramid and inorganic fibres providing excellent results in steam, hydrocarbons, and new generation refrigerants. Durlon® 8500 passed a modified API 607 fire test at an independent laboratory and has proven to be reliable in situations where temperature and pressure cycling causes failures of lesser quality materials.

Typical Physical Properties	
Colour	Green
Fiber	Aramid/Inorganic
Binder	NBR
Density	1.7 g/cc (106 lbs/cu. ft)
Tensile Strength ASTM F152	2000 psi (13.8 MPa)
Compressibility ASTM F36	8 to 16%
Recovery ASTM F36	50%
Temperature Range	-100 to 700°F
Continuous, max	548°F
Pressure, max	1500 psi
Nitrogen Sealability ASTM 2378	0.0300 cc/min
Creep Relaxation ASTM F38	20%
Flexibility ASTM F147	10x
Fluid Resistance, ASTM F146 IRM 903 Oil 5hrs at 300°F	
Thickness Increase	0-15%
Weight Increase	15%
ASTM Fuel B 5hrs at 70°F	
Thickness Increase	0-10%
Weight Increase	10%
Fluid Services	Saturated steam, oils, dilute acids & alkalis, solvents, fuels, refrigerants

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.

## Fire Testing:

Durlon® 8500 has successfully passed a modified version of the API 607 fire test (1,200°F, 30mins, 20 psi, 100 ml/min maximum allowable leakage.)

## Benefits:

### Versatility

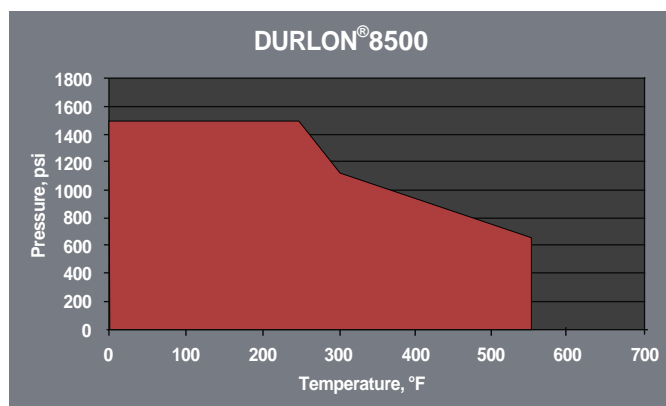
- Our very best general purpose premium gasket material

### Thermal Strength

- Our unique fibre matrix provides superior sealing in cyclical applications including steam and hot oils
- Passed the modified 607 fire test at an independent laboratory

### HVAC OEM Service Proven

- Durlon® 8500 has passed HVAC service fitness and compatibility test for most of the next generation refrigerants and lubricants



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 obsoletes all previous editions.

## Gasket Factors

	1/16"	1/8"
m	2.7	4.2
Y, psi	2,359	2,931
Gb, psi	650	400
a	0.33	0.35
Gs, psi	200	20