

Service | Quality | Performance



**Triangle Fluid Controls Ltd.®**



**DURLON**®  
SEALING SOLUTIONS

- Compressed Non-Asbestos Sheets
- PTFE Sheets/Gaskets
- Water/Sanitation NSF/ANSI 61 Gaskets
- Flexible Graphite Sheets/Gaskets
- High Temperature Sheets/Gaskets
- Low Seating Stress Gaskets
- Semi Metallic Gaskets
- Metallic Gaskets

**Triangle Fluid Controls Ltd.®** based in Belleville, Ontario, Canada; is a market-driven and technology-based company serving customers throughout the world with innovative fluid sealing and pump protection products.



### **Durlon® 5000**

- Good quality commercial grade compressed non-asbestos sheet for moderate service conditions suitable for steam, oil, water, mild alkalis, mild acids, hydrocarbons and solvents



### **Durlon® 8300 Carbon/NBR**

- Premium grade, multi-service, high strength carbon fibre and NBR gasket sheet suitable for a broad range of chemical and thermal services
- Can be exposed to extreme pressures and temperatures
- Excellent sealability during thermal cycling



### **Durlon® DuraSwell™ 7760**

- Gasket material for demanding applications that require excellent sealability, conformity to flange surfaces and recovery and designed to swell when in contact with oils and fuels
- Helps increase the gasket stress for applications that require increased gasket loading that may previously be limited, due to insufficient bolting or flange constraints



### **Durlon® 8400 Phenolic/NBR**

- Outstanding material designed for higher temperature and pH applications
- Provides widest range of chemical resistance of any of our non-asbestos gasket material
- Excellent torque retention to maintain Cathodic Protection (CP)



### **Durlon® 7900/7925/7950**

- General purpose sheet containing high-strength aramid fibres bonded with high-grade (NBR) Nitrile Bonded Rubber
- For applications in steam, hydrocarbons and refrigerants and an alternative when temperature and pressure conditions are below 260°C (500°F) and 1200 psig



### **Durlon® 8500 Aramid-Inorganic/NBR**

- Contains blend of high strength aramid and inorganic fibres
- High performance gasket material for general purpose applications
- Surpassed the API 6FB fire test & conforms to FDA 21 CFR 177.2600
- HVAC service fitness tested and compatible with modern refrigerants



### **Durlon® 7910**

- General purpose sheet containing high-strength aramid fibres bonded with high-grade (NBR) Nitrile Bonded Rubber
- Specifically developed to meet the requirement of NSF/ANSI 61 for potable water application at 23°C (73°F) to commercial hot 82°C (180°F)



### **Durlon® 8600 Aramid-Inorganic/SBR**

- Unique blend of high strength aramid and inorganic fibres with SBR binder for use in process industries including pulp & paper, power, petrochemical as well as general industry where a “white” gasket material is often required when working with food & beverage, pharmaceutical and plastics

Triangle Fluid Controls Ltd.® serves a wide range of end-user customers whose success depends on the reliable performance of their equipment and piping systems.



### Durlon® 8700 Aramid-Inorganic/CR

- Contains high-strength aramid and inorganic fibres bonded with high-grade neoprene (CR) rubber
- Excellent resistance to ozone, oils, non-aromatic solvents and refrigerants
- Top performer for original style HVAC OEM applications



### Durlon® 8900

- Premium grade compressed high temperature non-asbestos sheet for service conditions to 496°C (925°F) and continuous operating temperatures of -73°C to 400°C (-100°F to 752°F) or 13.8 MPa (2,000 psi)
- Passed ANSI/API 607 (6th Edition) Fire Test with zero recorded leakage



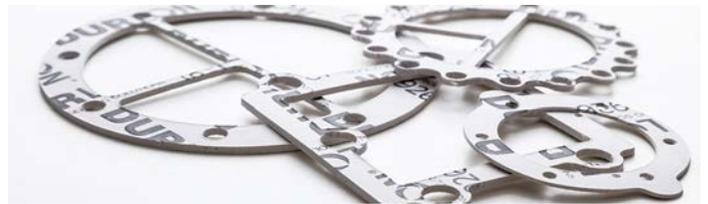
### Durlon® 9000/9000N Inorganic/PTFE

- Durlon® 9000/9000N is for use in process piping and equipment in chemical, pulp & paper, food & beverage, pharmaceutical and other general industrial applications where resistance to highly aggressive chemicals is required and the shape of the fillers do not allow wicking which can cause corrosion on flange surfaces
- Durlon® 9000 has achieved numerous certifications: WRAS (Water Regulations Advisory Scheme) Approved Material, USP Class VI, FDA and (EC) 1935/2004 & EU (10/2011) compliant, BAM oxygen service, TA-luft (VDI Guideline 2440), ABS-PDA & Pamphlet 95, the chlorine institute, DNV-GL, and has passed the API 6FA fire test
- Durlon® 9000N is FDA & USP Class VI certified



### Durlon® 9002

- Meets extreme cryogenic demands
- Passed BAM certification for both gaseous and liquid oxygen tests up to 260°C (500°F) at 52 bar (754 psi)
- Traditional oxygen cleaning standards applied, gaskets can be bagged, labeled and sealed according to the European Industrial Gases Association standard for Cleaning of Equipment for Oxygen service
- LOX Mechanical Impact Sensitivity (ASTM G86 – 98a) passing with zero reactions out of twenty tests (0/20) at a test reaction frequency of 0%
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug



### Durlon® 9200 Barium Sulfate/PTFE

- Barium sulfate filler blended with pure PTFE resin
- Suitable for hydrofluoric acid service
- BAM tested and certified for gaseous oxygen at pressures up to 52 bar (754 psi) and 260°C (500°F)
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug



### Durlon® 9400 Carbon/PTFE

- Pure PTFE resin combined with carbon filler homogeneously dispersed throughout the compound
- Developed for use in general industrial applications where resistance to highly aggressive chemicals (Hydrofluoric Acid and Anhydrous Hydrogen Fluoride) is required
- Demonstrates good electrical conducting properties where flange electrical continuity is required



### Durlon® 9600 Expanded PTFE

- Made from pure PTFE resin that offers compressibility up to 60% and is resistant to highly aggressive chemicals
- Suitable for use in steel flanges and flanges with irregular surfaces
- Unique expanding process creates a high degree of fibrillation with nearly uniform strength in all directions minimizing cold flow and creep while maximizing performance stability and reliability
- FDA compliant, ABS-PDA & USP Class VI certified



### Durlon® Virgin PTFE

- Pure PTFE product available in two grades: skived or reprocessed
- Resistant to highly aggressive materials (including hydrofluoric acid)
- Retains flexibility in low temperature applications and exhibits good electrical insulation and high dielectric properties
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug



### Durlon® Flexible Graphite

- Available in a homogeneous, laminated and tanged styles with various thickness stainless cores
- Unaffected by heat over a wide range of temperatures
- Exhibits low electrical resistivity and high thermal conductivity and is suitable for cryogenic temperatures
- Available styles: FGS95, FGL316, FGT316, FGM316



### Durlon® HT1000 (Ultimate Mica Technology)

- Phlogopite mica paper impregnated with an inorganic binder
- Superior weight retention: less than 4% weight loss at 800°C (1,472°F), and extreme temperature sealing performance up to 1,000°C (1,832°F)
- Flexible, elastic, has a high tensile strength, can withstand substantial mechanical pressure perpendicular to the lamellar plane, chemically resistant, fireproof, infusible, incombustible, and is a known non-toxic alternative to asbestos
- Available styles: S90, L316, T316



### iGuard™ Isolation & Sealing Kits

- Consists of gasket, isolating washers, backing washers, and isolating bolt/stud sleeves
- Contains components that seal, electrically isolate, and provide cathodic protection (corrosion control) between flanges
- Gasket choices include: phenolic; neo-faced phenolic, hi-temp phenolic G-3, Silicone Glass G-7, Epoxy Glass G-10, Epoxy Glass G-11, Durlon® 8400, Durlon® 8500, and Durlon® 9000
- Available for full face, raised face and ring type joint flanges from NPS 1/2" (DN 15) to NPS 144" (DN 3600)
- Gaskets meet AWWA, ANSI, API, DN, JIS and all other dimensional standards



### RTJ (Ring Type Joint) Gaskets

- Precision machined from solid metal and designed for high pressure and temperature as well as aggressive chemicals
- Traceable and material hardness is carefully controlled to ensure a good seal without damaging the surfaces of the flange
- ASME B16.20 standard and the API spec 6A
- Available styles: R, RX, BX

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### Durlon® RCA

- The Reduced Contact Area gaskets replaces standard full-face gaskets in FRP, PVC and other non-metallic and metallic pipe flanges where a low stress gasket is required
- Configuration reduces the total gasket contact area resulting in a lower seating stress at a given torque level, while preventing flange rotation
- Available materials: 1/16" and 1/8" Durlon® PTFE styles and 1/16" compressed asbestos-free styles



### Durlon® ETG Gaskets

- Engineered to provide the preeminent solution to sealing gasketed joints exposed to high temperatures, typically greater than 650°C (1,200°F) and up to 1,000°C (1,832°F)
- Oxidation boundary material combined with flexible graphite to preserve seal integrity and retain the initial assembly torque
- Sealing industry's best available technology for effectively sealing extreme temperature applications
- Available styles: Spiral Wound, Durtec®, Kammprofile



### Durlon® Joint Sealant

- Made with only 100% pure PTFE resins
- Supplied on spools it comes in various thicknesses with adhesive backing to ease in installation and is ideal for worn flanges of all sizes
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug



### Durlon® Durtec® with DurCore® (Premium Corrugated Metal Core)

- Virtually uncrushable design makes it ideal for tough to seal cyclical pressure and temperature applications under low bolt loads
- Designed to withstand high temperatures, pressures and blowout resistant
- Fire Safe- SS316L/Graphite Passed Modified API 607 fire test
- Core may be refaced and reused



### Kammprofile Gaskets

- Solid metal core gasket with machined grooves that provides reduced contact area and when combined with the soft conformable sealing layers
- Improved performance at low seating stresses and excellent resistance to blowout



### Spiral Wound Gaskets

- Made with an alternating combination of a preformed engineered metal strip and a more compressible filler
- Strip metallurgy and filler material combinations can be selected to seal virtually any application
- Manufactured according to ASME B16.20 standards
- Available styles: D, DR, DRI



### Durlon® CFG (Corrugated Flexible Graphite Gasket)

- Fire safe and blowout resistant, the corrugated, flexible graphite (metal core) material is designed for severe service conditions
- Seals imperfect flanges with no inward buckling
- One Standard Thickness: 2.38mm (3/32")
- Standard ANSI Class 150 & 300 ring gaskets: 1/2" – 24"

## Durlon® Sealing Products: Safe, Reliable & Versatile

- ✓ Widest possible range of service applications – number of different types of gaskets to be inventoried can be greatly reduced
- ✓ Boost to process safety – limiting the number of gasket styles reduces the chance of installing the wrong gasket in the wrong service
- ✓ Unvarying performance on the job – gasket materials are manufactured to ISO 9001:2015 quality standards and are subjected to continuous testing and rigid quality control

# Service | Quality | Performance



## Triangle Fluid Controls Ltd.<sup>®</sup>

399 College Street E., Belleville, ON K8N 5S7

Phone: 613.968.1100 | Toll-Free: 1.866.537.1133 | Email: [info@trianglefluid.com](mailto:info@trianglefluid.com) | Fax: 613.968.1099  
[trianglefluid.com](http://trianglefluid.com) | [durlon.com](http://durlon.com)



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- PTFE Sheets/Gaskets
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## Custom Fabrication

- Gasket Cutting
- Lathe Cutting
- Step Gaskets for Acid Piping
- Welding
- Custom Made Metallic Gaskets
- RCA Gaskets

We are Proud Manufacturers of

**DURLON**<sup>®</sup>  
SEALING SOLUTIONS

