

**Service | Quality | Performance**



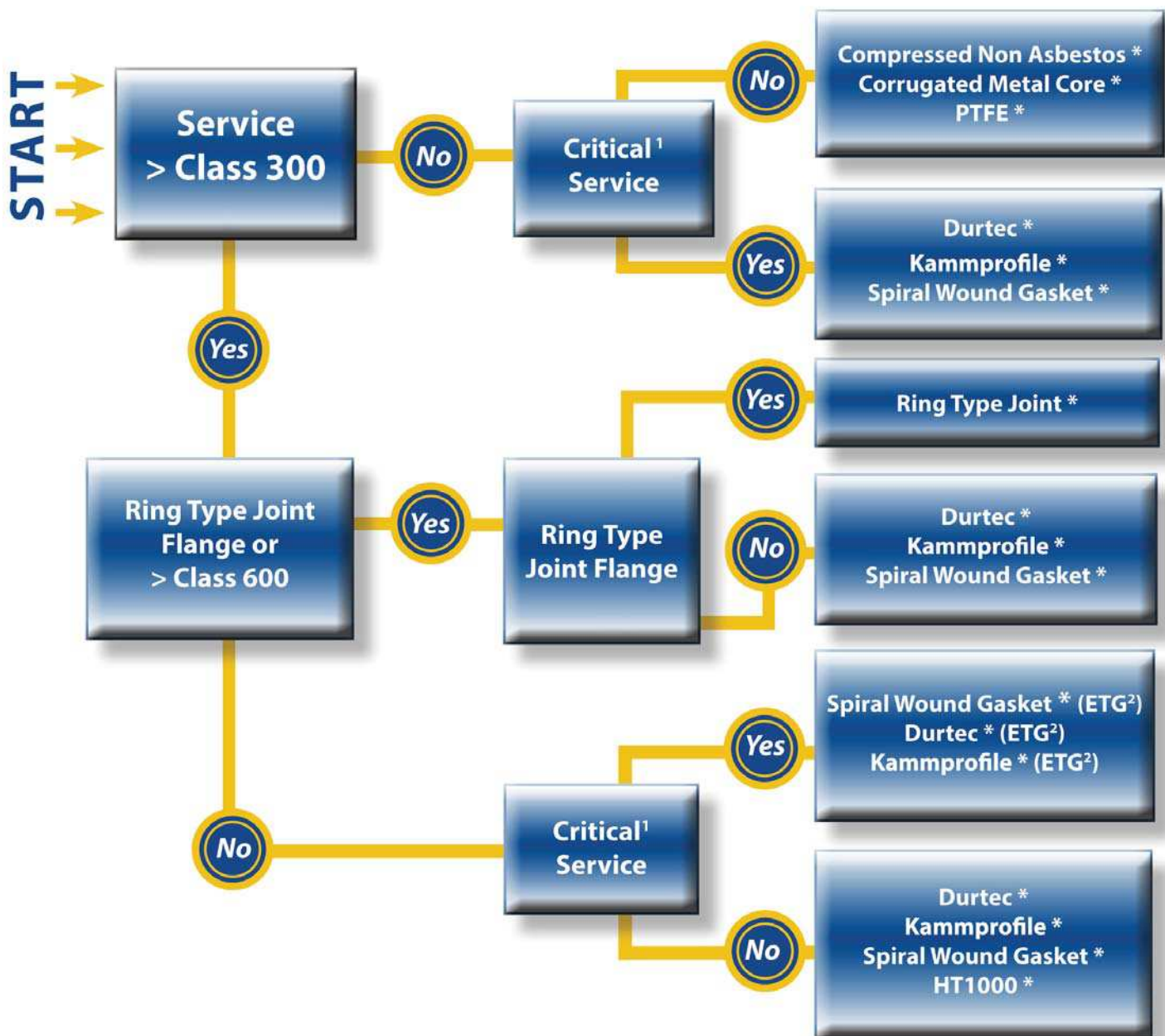
**Triangle Fluid Controls Ltd.®**



**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**

# DURLON® Gasket Selection Chart



<sup>1</sup>Critical service can be any factor essential to plant operation or personnel/plant safety, and can include environmental compliance. Failure or disruption of any critical service could result in serious impacts such as fines, time loss and/or injuries.

<sup>2</sup>Extreme Temperature Gasket Series

\*See product descriptions for more information. NOTE: This selection chart is for general use only. For critical applications consult with Triangle Fluid Controls technical department. Triangle Fluid Controls does not accept responsibility for the misuse of this information.

## Custom Fabrication

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

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

### Durlon® 5300

- Good quality compressed sheet for moderate service conditions
- ABS-PDA certified material

### Durlon® DuraSwell™ 7760

- Controlled swell material designed to swell on contact with oils and fuels, creating gasket stress

### Durlon® 7900/7925/7950

- General purpose sheet containing high-strength aramid fibres bonded with high-grade nitrile (NBR) rubber
- Commercial grade gasket with anti-stick coating that cuts easily and cleanly for improved handling

### Durlon® 7910

- Contains high-strength aramid fibres bonded with high-grade nitrile (NBR) rubber
- Specifically developed to meet the requirement of NSF/ANSI 61 for potable water applications at 23°C (73°F) to commercial hot 82°C (180°F)
- Commercial grade, offered in cut gaskets only

### Durlon® 8300

- 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® 8400

- Outstanding next generation material designed for higher temperature and pH applications
- Provides widest range of chemical resistance of any asbestos-free material
- Phenolic fibre helps to maintain Cathodic Protection (CP)

### Durlon® 8500

- Contains blend of high strength aramid and inorganic fibres for a wide variety of general purpose applications
- Surpassed the API 6FB Fire Test
- HVAC service tested and compatible with modern refrigerants

### Durlon® 8600

- Unique blend of high strength aramid and inorganic fibres with SBR binder
- Often used as a “white” gasket material in the Food & Beverage industry

### Durlon® 8700

- Contains high-strength aramid and inorganic fibres bonded with high-grade neoprene (CR) rubber
- Excellent resistance to certain oils, non-aromatic solvents and various 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

- Durlon 9000 is made with Teflon™ fluoropolymer
- Tested and approved for liquid chlorine, caustics, gaseous oxygen, and high purity applications; TA Luft approved, USP Class VI Certified, ABS-PDA Certificate, Complies with (EC) 1935/2004 & (EU) 10/2011
- Various shapes of inorganic fillers blended with pure PTFE resins
- Durlon 9000 listed as an acceptable gasket material for dry chlorine service (liquid and gas) in Pamphlet 95 of the Chlorine Institute
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug contact



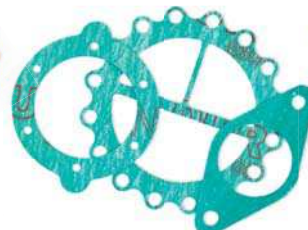
Durlon® DuraSwell™



Durlon® 8300



Durlon® 8400



Durlon® 8500



Durlon® 9000



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## Durlon® 9002

- BAM tested and certified for oxygen service for pressures up to 754 psi (52 bar) and temperatures up to 500°F (260°C) and service in gaseous and liquid oxygen
- 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%
- Suitable for cryogenic services
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug contact

## Durlon® 9200

- Barium sulfate filler blended with pure PTFE resin
- Suitable for highly aggressive, high alkaline, high pH service
- BAM tested and certified for gaseous and liquid 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 contact

## Durlon® 9400

- Pure PTFE resin combined with carbon filler homogeneously dispersed throughout the compound
- Developed for use in Hydrofluoric Acid and Anhydrous Hydrogen Fluoride (AHF)
- 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, glass lined pipe and FRP flanges
- Unique expanding process creates a high degree of fibrillation with nearly uniform strength in all directions
- Structure minimizes cold flow and creep while maximizing performance stability and reliability
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug contact



Durlon® 9002



Durlon® 9200



Durlon® 9600



Durlon® Joint Sealant



Durlon® RCA

## Durlon® Joint Sealant

- Made with only 100% pure PTFE resins and exhibits the same chemical resistance as virgin PTFE
- Highly fibrillated expanded PTFE form-in-place sealant for gasketed joints
- Supplied on spools it comes in various thicknesses with adhesive backing for ease in installation and is ideal for worn flanges of all sizes
- Exhibits flexibility, compressibility, stability under high temperature and high tensile strength, chemically inert and resists creep relaxation
- Conforms to FDA requirements of 21 CFR 177.1550 for food and drug contact

## Durlon® Virgin PTFE

- Pure PTFE product available in two grades: skived or reprocessed
- Resistant to highly aggressive materials
- 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 contact

## 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 super inhibited 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® RCA (Reduced Contact Area)

- Replaces standard fullface gaskets in FRP, PVC and other non-metallic and metallic pipe flanges where a tight seal at lower gasket stresses 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

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## Durlon® Flexible Graphite

- Available in a homogeneous, laminated, multi-layer 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

## Durlon® Durtec® (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 severe service (high temperatures and pressures)
- Fire Safe- SS316L/Graphite Passed Modified API 607 Fire Test
- Core may be refaced and reused

## RTJ (Ring Type Joint) Gaskets

- Precision machined from solid metal and designed for high pressure and temperature as well as aggressive chemicals
- Material hardness is carefully controlled to ensure a good seal without damaging the surfaces of the flange
- Conforms to ASME B16.20 and API specification 6A
- Thin protective coating eliminates oxidation effects due to atmospheric contact
- Available styles: R, RX, BX
- Fully traceable (MTR's provided)



Durlon® HT1000



Durlon® Durtec®



Kammprofile Gaskets



Spiral Wound Gaskets



Durlon® iGuard™

## Durlon® CFG (Corrugated Metal Core)

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

## Kammprofile Gaskets

- Solid metal core gasket with machined grooves that provides reduced contact area that tightly seals at low bolt loads
- Improved performance at low seating stresses and excellent resistance to blowout
- Metal core is typically stainless steel but it can be supplied in various metallurgies as well as various facing materials
- Two core designs: K40P – Parallel Root Core, K40C Convex Root Core; Four styles: Extended Core Floating Centering Ring, Floating Centering Ring, No Centering Ring, Integral Centering Ring

## 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
- Enhanced mica-graphite technology available

## 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, 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

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