DURLON®
SEALING SOLUTIONS



www.durlon.com
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SEALING SOLUTIONS FOR

OEM Services



We succeed
when you
succeed.

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Our Vision

Evolution isn't a choice in today's business landscape; it's the only way to succeed.

Progress relies on everything moving forward, from people to machinery to production. Everything must flow.

As we engineer our way to a better world, we are breaking down barriers, making sure each process is in place, always reflecting and improving. We are experts at delivering the best sealing solutions to help our customers unlock their highest potential.

Our global community of industry-leading specialists drive our innovative production and materials to consistently raise the bar.

Whether subjected to the stresses of everyday use, specialized applications, high-temperature environments, or liquid and gas service, our products are engineered to provide reliable sealing integrity.

At Durlon, we succeed when you succeed.

DURLON®
SEALING SOLUTIONS

Sealing Solutions for **OEM Services**

OEM and Customized Sealing Solutions
Durlon® gasket technologies develop and manufactures special and custom sealing solutions according to customer specifications for various OEMs (Original Equipment Manufacturers) and customized applications. Our dedicated engineers work with customers to customize gasket design, material selection, dimensions, and performance characteristics to suit the equipment or product. Components can also be tested to help verify performance and suitability for the intended application.

Durlon® products are listed on approved material lists (AMLs) maintained by various multinational end users, where applicable. With a broad product range and global manufacturing capabilities, we can also offer fast turnaround times no matter where in the world your site is located.

OEM Industries and Custom-Made Gaskets
The following examples list OEM equipment and industries that commonly incorporate gaskets in their mechanical components:

Skid-Mounted Pumps
Pump casings, casing joints, covers, and flange connections.

Skid-Mounted Compressors
Cylinder heads, valves, and discharge pipes.

Skid-Mounted Heat Exchangers
Plate packs, channel covers, bonnets, heads, and flange connections, depending on heat-exchanger design.

Skid-Mounted Filters
Liquid or gas filter housings and connections.

Skid-Mounted Separators
Vessel connections and internal components.

Skid-Mounted Chillers
Refrigerant piping, evaporators, condensers, and associated flange connections.

Skid-Mounted Generators
Engine blocks, cylinder heads, and exhaust systems.

Skid-Mounted Valves
Valve bodies and flange connections.

Oil Industry
Drilling equipment, gas exploration, refining, transportation processes, well-completion tools, and production: pumps, valves, and control systems.

Wastewater Industry
Pumps, valves, filtration systems, and treatment equipment for municipal and industrial applications.

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Chemical Industry
Reactors, pipelines, and storage tanks.

Pulp Industry
Pulp processing, papermaking, fiber processing, and tissue production equipment - valves, pumps, digesters, pipelines, and refiners.

Food Industry
Filling machines, milling systems, sorting machines, extruders, pumps, mixers, valves, packaging equipment, and processing equipment.

Pharmaceutical Industry
Pumps, reactors, autoclaves, and filtration systems.

Power Industry
Gas turbines, steam turbines, wind turbines, generators, boilers, heat exchangers, piping systems, and control systems for various power plants.

Mining Industry
Engines, pumps, compressors, valves, crushers, and conveyors.

Automotive Industry
Engine components (cylinder heads, exhaust manifolds, valve covers), transmission systems, and cooling systems.

Aerospace Industry
Aircraft engines, fuel systems, hydraulic systems, environmental-control systems, and other fluid-handling components.

These are just a few examples of industries and equipment categories supported by OEMs. Manufacturers in these sectors specialize in designing, supplying equipment, components, and systems that cater to the specific needs and challenges of each industry.



Innovative products
Unparalleled service

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Durlon® Sealing Solutions

Industries rely on Original Equipment Manufacturers (OEMs) to provide specialized equipment and components tailored to their specific needs. It's important to note that the selection of gasket types depends on factors such as the operating temperature, pressure, chemical compatibility, and the specific requirements of the equipment.

Durlon®'s gasket products are used in numerous OEM mechanical systems and play a crucial role in ensuring proper sealing, preventing leaks, and maintaining the integrity of various mechanical components across the different sectors.

Durlon® compressed non-asbestos (CNA) gaskets are exclusively manufactured at Durabla Canada Ltd. These high-density products feature the most controlled combination of minerals, synthetic fibers, and elastomers. They are used in a wide variety of industries on a broad range of chemical applications at varying temperatures and pressures. Their flexibility helps reduce large, narrow flange gaskets from breaking during cutting and installation, and their superior recovery ensures tight sealing during thermal cycling.

Durlon® PTFE gaskets are exclusively manufactured at Triangle Fluid Controls Ltd., located in Canada. Our compression-molding and skiving processes provide controlled physical properties, dimensional consistency, and performance characteristics. With engineered filler formulations, Durlon® PTFE products can meet your tough chemical applications and engineering specifications.

Durlon® metallic gaskets are manufactured from metallic materials and designed to withstand extreme temperatures, pressures, and chemical exposure. Available in standard and custom configurations, these rugged metal gaskets are made of a wide range of materials to accommodate various process applications.

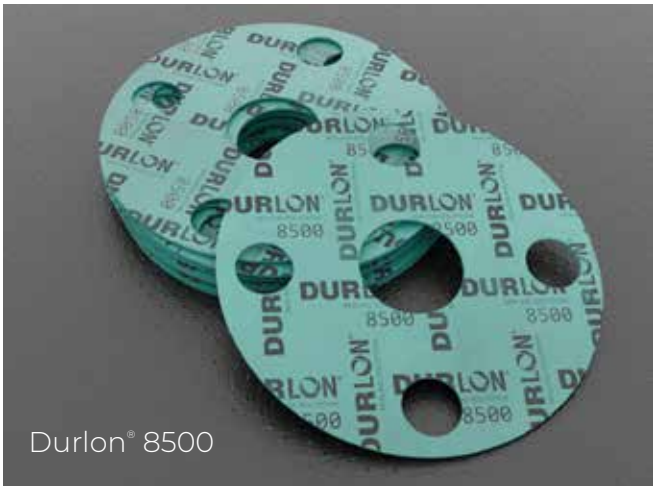
Durlon® semi-metallic gaskets include both metallic and non-metallic components, either containing a metal core with sealing materials on both flat surfaces, or a pliable core encased in a thin metallic casing. They are available in a wide variety of styles and sizes. They can typically be fabricated of any metal which is available in thin strips or sheets, and which can be welded. Their suitability for corrosive media depends on the selection of the metal and filler or facing material.

Our computer-aided manufacturing process uses rigorous quality control programs to ensure premium quality product performance. The metallic component gives the gasket superior structural integrity, while the non-metallic element ensures superior sealing.

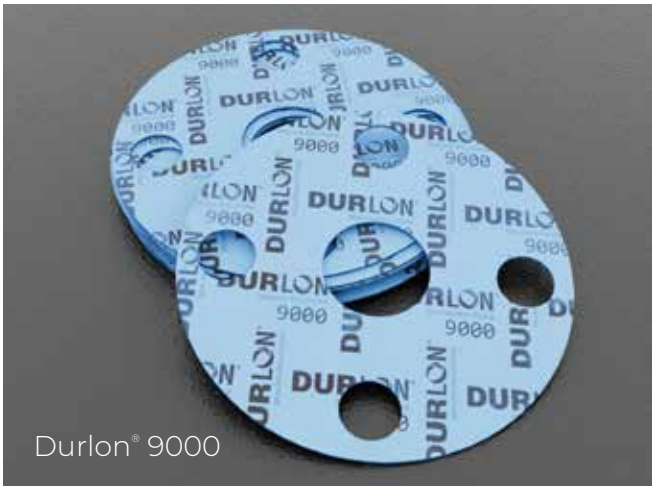
Durlon® products are used in virtually every industrialized corner of the world. Our gasket materials are manufactured to ISO 9001 quality standards and are subjected to continuous testing and rigid quality control, ensuring unvarying performance on the job.

We recognize the increasing regulatory emphasis on fugitive emissions in Canada, the United States, and other regions. One of our design objectives is to maximize gasket sealability and support compliance with applicable fugitive-emission requirements.

Durlon® Product Recommendations



Durlon® 8500



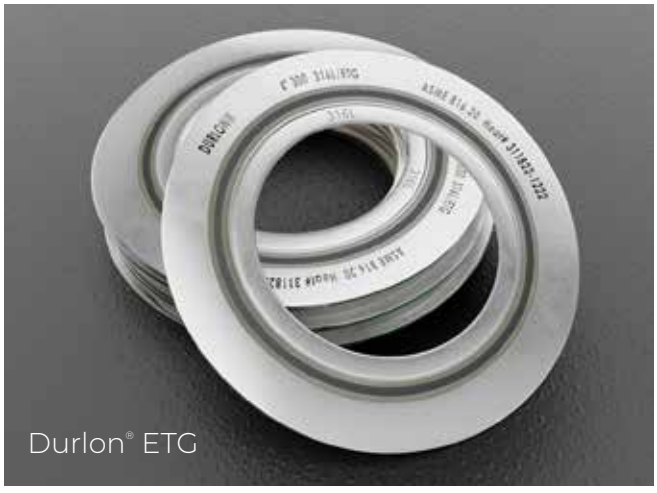
Durlon® 9000



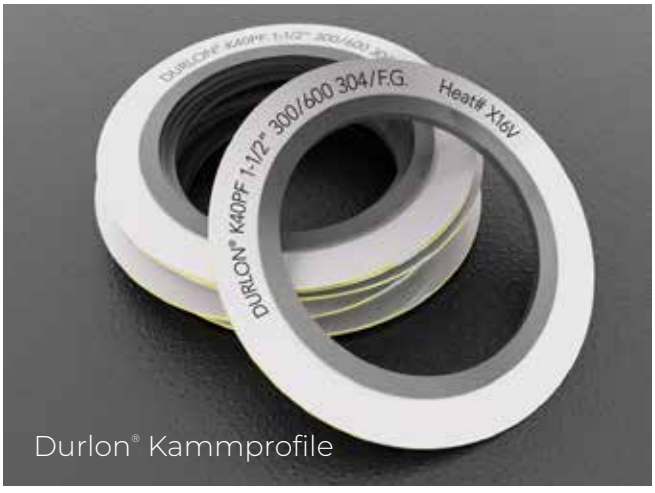
Durlon® SWG DRI



Durlon® Durtec®



Durlon® ETG



Durlon® Kammprofile

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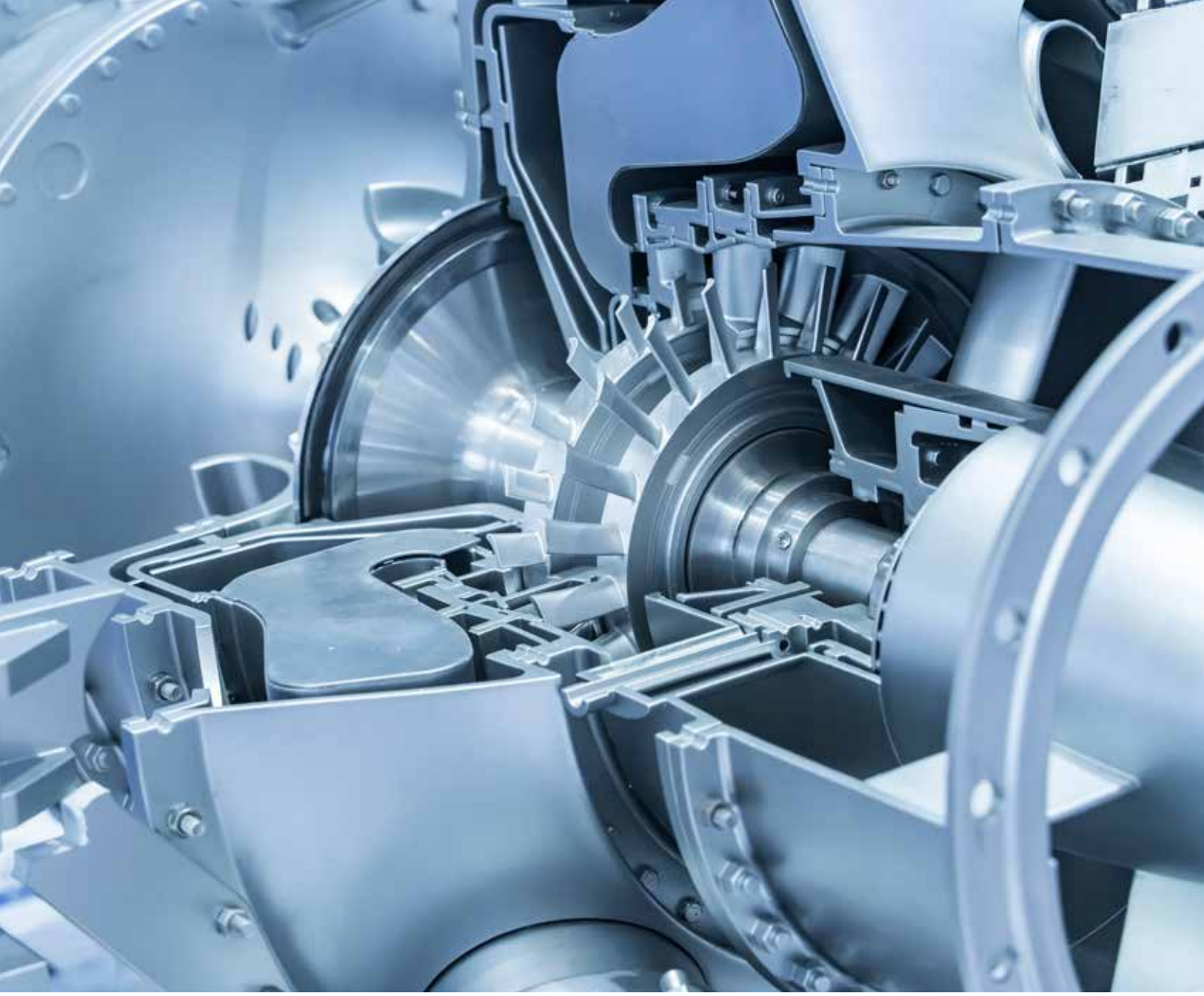
Physical Properties & Certifications

Physical Properties	8500	9000	SWG	Durtec®	ETG	Kammprofile
Composition	Aramid -Inorganic NBR	Inorganic Filler / Pure PTFE Resins	Spiral Wound Gasket	Specially Engineered Metal Core Technology	Extreme Temperature Gasket	Grooved Metal Gasket / Covering Layers
Color	Green	Blue	Style: DRI	-	SWG / Durtec® / Kammprofile	Metal
Temperature: Min Max Continuous, Max	-40°C (-40°F) 371°C (700°F) 287°C (548°F)	-212°C (-350°F) 271°C (520°F) 260°C (500°F)	-	-200°C (-328°F) 450°C (842°F) 400°C (752°F)	> 650°C (1,200°F) up to 1,000°C (1,832°F)	-200°C (-328°F) 450°C (842°F) 400°C (752°F)
Pressure, max, bar (psi)	103 (1,500)	103 (1,500)	-	430.9 (6,250)	-	414 (6,000)
Density, g/cm³ (lb/ft³)	1.7 (106)	2.2 (138)	-	-	-	-
Compressibility, %	8–16	8–16	-	-	-	-
Recovery, %	50	40	-	-	-	-
Creep Relaxation, %	20	30	-	-	-	-
Tensile Strength, MPa (psi)	13.8 (2,000)	13.8 (2,000)	-	-	-	-
Sealability ASTM F2378 (Nitrogen)	0.03 mL/min	0.01 mL/min	-	-	-	-
pH range, Room Temperature	-	-	-	0–14	-	-

Durlon® SWG - All Durlon® SWG's are manufactured in accordance with ASME B16.20. Quality Assurance complies with API Specification Q1 and ISO 9001 standards. Super Inhibited Graphite meets the requirements of Shell Specification MESC SPE 85/203 and meets PVRC SCR Flexible Graphite Spec for FG 600 material.
Durlon® ETG adds an inner and outer protection boundary in the form of a mica-phyllosilicate based sealing material - Durlon® HT1000® : consists of phlogopite mica paper impregnated with an inorganic binder at less than half the binder amount found in a typical vermiculite-phyllosilicate filled product. This lower binder content allows for superior weight retention and results in ultimate extreme temperature sealing performance.
Durlon® Durtec® - Actual performance and service life are dependent upon material selection, operating conditions and environmental factors.
Durlon® Kammprofile - Actual performance and service life are dependent upon material selection, operating conditions and environmental factors.

Style	Certifications
8500	California Proposition 65 and RoHS and REACH Declaration compliant, API 6FB Fire Test with avg. temperature >650°C, 30 minutes, 40 bar, 1 mL/(in·min) max allowable leakage, Conforms to the FDA requirements of 21 CFR 177.2600, ABS Tier 2 - PDA Issued.
9000	Passed API 6FA, 3rd Edition Fire Test, Meets USP Plastic Class VI requirements at 121°C (250°F), Conforms to FDA 21 CFR 177.1550, TA-Luft (VDI Guideline 2440) approved material, ABS-PDA & Pamphlet 95 approved material - chlorine institute, (EC) 1935/2004 & EU (10/2011) approved material.
SWG	TA-Luft (VDI Guideline 2440), Tested to API Standard 6FB in a 6 in. Class 300 SWG FG.
Durtec®	Passed modified API 607 fire test and meets the requirements of Shell Specification MESC SPE 85/203 & PVRC SCR Flexible Graphite Specification for FG 600 material, RoHS and REACH Declaration compliant.
ETG	API 6FB, 4th Edition (2019), Type 1 (Onshore Test); API 6FB, 4th Edition (2019), Type 2 (Offshore Test); API 607, 4th Edition Fire Test with Exxon modifications.
Kammprofile	RoHS and REACH Declaration compliant

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.
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.



The core of the Durlon® brand is to provide fluid sealing solutions that make sense, both financially and strategically. We accomplish this through process-oriented design, sector-specific knowledge, and extensive testing. Our goal is to ensure performance and safety while operating under a quality management system registered to ISO 9001:2015.

At Durlon, we offer specially developed sealing solutions tailored to your specific needs.

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