INTERFACE SOLUTIONS

Gasket Materials

InterFace Solutions

Interface Solutions, Inc.

Technically Reliable Solutions

Interface Solutions, Inc. (ISI), a leading global manufacturer of sealing systems and engineered composite materials, offers durable, affordable and technically reliable solutions for a range of applications in the automotive, heavy-duty diesel, small engine and related industries. Committed to quality, all ISI processes and products are audited and meet the quality standards of leading customer programs worldwide. Our thorough design and validation processes include rigorous performance testing and every material shipment is lab-certified. Product and application engineers complete thousands of hours of functional testing validating material performance and long-term durability, resulting in robust solutions that satisfy the most stringent requirements. ISI helps customers meet global requirements for cost reduction, performance improvement and certainty of operation.

Value Grade Materials

Interface Solutions, Inc. offers nearly 60 different gasket materials, encompassing a wide range of performance capabilities, price points and intended uses. A unique, high performance set of materials, known as the Value Grade line, give fabricator partners and end-users business advantages through superior performance, reduced lead times, assured availability, fast delivery and custom testing for specific applications. Value Grade materials are bolded throughout the materials list. For more information on the Value Grade line and complete material data sheets, visit www.sealinfo.com.

Interface Product	Characteristics	Uses	Density g/cm3 (lbs./cu.ft.) (min.)	ASTM F 36 Compressibility, % at 34.5 MPa (5000 psi)	Minimum Recovery, %	ASTM F 152 Minimum Tensile Strength MPa (psi), AMD	Composition		Classification	ASTM F104 Call-Out
							Fiber	Binder Type		
CMP-4000	A high performance, compressed material with excellent sealability and torque retention properties.	Short duration maximum temperatures up to 350°C (650°F). Common applications include: OEM and Industrial steam, water, oil and chemical sealing.	1.60 (100)*	5 - 15	50	< 0.8mm Gauge: 13.60 (1968) All other Gauges: 18.60 (2700)	Synthetic Blend	Fully Cured[1] Nitrile Butadiene Rubber	Value Grade Sheet	F722930E22M9
CMP-4200	**A solvent-free, high performance compressed material with exceptional sealability, torque retention and crush and blowout resistance. Suitable for steam, water, oil and chemical applications.**	**Short duration maximum temperatures up to 350°C (650°F). Common applications include: OEM and Industrial steam, water, oil and chemical sealing.**	**1.55 (97)**	**7 - 17**	**50**	**12 (1740)**	**Synthetic Blend**	**Fully Cured[1] Nitrile Butadiene/ Styrene Butadiene Rubber Blend**	**Value Grade Sheet**	**F729190E33M9**
CN-705	A low density and highly conformable material suitable for use with oil, gasoline and water. Material contains cork particles as a filler.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: light-duty, general oil, gas, water and air sealing.	0.61 (38)	25 - 40	25	5.52 (800)	Cellulose	Nitrile Butadiene	Roll	F339199E99M9
CS-301	A low density and highly conformable material suitable for use with oil and water. Material contains cork particles as a filler.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: light-duty, general oil, water and air sealing.	0.61 (38)	25 - 40	30	4.83 (700)	Cellulose	Controlled Swell[3] Styrene Butadiene	Roll	F339996E99M9
D-7200	A high density material with resistance to oil, fuel, water and coolant.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: oil, fuel, water and coolant sealing.	1.50 (93.8)*	8 - 18	40	13.79 (2000)	Cellulose	Fully Cured[1] Nitrile Butadiene	Sheet	F729900E32M6
D-7201	A high density material with excellent mechanical strength, sealability and erosion resistance to high pressure, high volume fluid flow and impingement.	Short duration maximum temperatures up to 290°C (550°F). Common applications include: heavy-duty automatic transmissions and various military gaskets.	1.50 (93.8)	5 - 20	40	15.86 (2300)	Aramid	Fully Cured[1] Nitrile Butadiene	Sheet	F729900B4E33M9
D-7280	A compressible material with added resistance to fuel, oil, coolant and water.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: low to moderate load fuel, oil, coolant and water sealing.	1.20 (75)	15 - 30	40	10.34 (1500)	Cellulose	Fully Cured[1] Nitrile Butadiene	Sheet	F729190B9E93M5
D-7590	A highly compressible, chemically resistant, and elevated temperature material used as a filler in composite gasket constructions.	Maximum continuous operating temperatures up to 260°C (500°F). Common applications include: PTFE envelope and metal-jacketed gaskets.	0.565 - 0.665 (35.3 - 41.5)	30 - 50	15	2.76 (400)	Aramid	Acrylic	Sheet	F729190B9E93M5
EMC-7201*	A composite structure of high density gasket facings chemically and mechanically fused to an expanded steel core. Available in 0.042", 0.048" and 0.060" gauges in a sheet size of 21" x 63" and 27" x 63" (usable area).	Short duration maximum temperatures up to 290°C (550°F). Common applications include: diesel engine structural joints, high pressure hydraulic joints and performance and racing engine applications.	2.0 (125)	14	50	37.90 (5500) MD: 15.20 (2200)	Aramid	Fully Cured[1] Nitrile Butadiene	EnCore® Sheet	—

Visit www.sealinfo.com for complete data sheets

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							Fiber	Binder Type		
HFL-781	**A high density material used in heavy-duty oil sealing applications. The specification values are for 0.8mm (0.031") gauge material.**	**Short duration maximum temperatures up to 290°C (550°F). Common applications include: heavy-duty oil sealing such as diesel engine oil pan and front cover.**	**1.6 (100)***	**7 - 17**	**40**	**13.90 (2014)**	**Aramid**	**Controlled Swell[3] Styrene Butadiene/ Natural Rubber**	**Value Grade Sheet**	**F729900B5E09M9**
HFL-971	**A high density material with superior mechanical strength in heavy-duty applications. It has exceptional tensile strength and crush, blowout and erosion resistance. It is also resistant to shear and friction damage in dynamic joints.**	**Short duration maximum temperatures up to 350°C (650°F). Common applications include: heavy-duty applications sealing transmission fluid, axle lube, oil, fuel, coolant, water and steam.**	**1.50 (93.6)**	**7 - 17**	**40**	**< 0.5mm Gauge: 12.40 (1800) 0.5 to 0.8mm Gauge: 24.10 (3500) All other Gauges: 27.50 (3985)**	**Aramid**	**Fully Cured[1] Nitrile Butadiene Rubber**	**Value Grade Sheet**	**F729900E39M9**
HTX-900*	A composite material consisting of graphite-coated, high-temperature facing material chemically and mechanically fused to an expanded steel core. Available in 0.043", 0.048", 0.060" and 0.093" gauges in a sheet size of 20" x 63" (usable area).	Designed for exhaust and heat shielding applications at typical internal combustion engine temperatures. Common applications include: exhaust manifold, header, collector and EGR system and other industrial sealing applications that require high strength, thermal integrity and anti-stick performance.	2.0 (125)	12	50	27.50 (4000) MD: 15.20 (2200)	Hi-Temp Blend	Fully Cured[1] Nitrile Butadiene	EnCore® Sheet	—
M-5201	A high density material with added resistance to oil and fuel.	Short duration maximum temperatures up to 290°C (550°F). Common applications include: heavy-duty diesel engine.	1.55 (97)*	7 - 17	40	< 0.8mm Gauge: 13.80 (2000) All Other Gauges: 16.60 (2405)	Aramid	Fully Cured[1] Nitrile Butadiene	Sheet	F729900B4E43M9
MBF-G*	A high-temperature material combining an inorganic fiber, low binder facing material with an 0.2mm (0.008") tang perforated tin-plated steel core. Available in several gauges, with roll widths up to 305mm (12") wide. The following typical values were established using an overall construction thickness of 1.6mm (0.063").	Designed for exhaust and heat shielding applications at typical internal combustion engine temperatures. Common applications include: automotive and small engine header, downpipe and collector, EGR, muffler and other exhaust gas applications.	0.88 (55) (facings only)	25 - 35	20 -30	29 (4250)	Hi-Temp Blend	Nitrile Butadiene	EnCore® Roll	—
MBG-C*	A high performance material combining graphite facings on a 0.2mm (0.008") tang perforated tin-plated steel core. It is compressible and resilient, yet offers excellent bolt torque retention and chemical and heat resistance. The typical values were established using an overall thickness of 1.2mm (0.047").	Designed for use to 500°C in cylinder head, EGR, and exhaust systems.	1.00 (62.4) (facings only)	30 - 37	16 - 22	41.4 (6000)	Graphite	—	EnCore® Roll	—
MBG-D*	A high performance material combining expanded graphite facings on 0.2mm (0.008") tang perforated tin-plated steel core. It is compressible and resilient, yet offers excellent bolt torque retention and chemical resistance and heat resistance. The typical values were established using an overall thickness of 1.2mm (0.047").	Designed for use to 500°C in cylinder head, EGR, and exhaust systems.	1.12 (70) (facings only)	23 - 30	20 - 28	34.5 (5000)	Graphite	—	EnCore® Roll	—
MBG-H*	A high performance material combining expanded graphite facings on 0.2mm (0.008") tang perforated tin-plated steel core. It is compressible and resilient, yet offers excellent bolt torque retention and chemical resistance and heat resistance. The typical values were established using an overall thickness of 1.2mm (0.047").	Designed for use to 500°C in cylinder head, EGR, and exhaust systems.	1.44 (90) (facings only)	21 - 27	24 - 30	37.9 (5500)	Graphite	—	EnCore® Roll	—
MCC*	A high performance, thermally stable material with 0.2mm (0.008") perforated tin-plated steel facings on one or both sides. The typical values were established using only the fiber core without cladding, with a thickness of 1.6mm (0.062"). Double-clad material is available in 1.2mm (0.047") and 1.6mm (0.062") thicknesses and single clad material is available in 1.0mm (0.039") and 1.2mm (0.047") thicknesses.	Designed for exhaust and heat shielding applications at typical internal combustion engine temperatures.	0.96 (60)	At 6.9 MPa: 30	49	6.5 (943)	Hi-Temp Blend	Nitrile Butadiene	EnCore® Sheet	—
MP-15	**A material with excellent low flange pressure sealability and bolt torque retention designed for heavy-duty applications.**	**Short duration maximum temperatures up to 205°C (400°F). Common applications include: heavy-duty applications including compressors and diesel engines.**	**1.54 (96)**	**13 - 25**	**50**	**10.34 (1500)**	**Synthetic Blend**	**Polychloroprene**	**Value Grade Roll**	**F729000M5**

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							Fiber	Binder Type		
MP-2N	**A material specifically engineered to conform well to irregular flange surfaces, with exceptional sealability for coolant, lubrication and induction systems.**	**Short duration maximum temperatures up to 205°C (400°F). Common applications include: automotive powertrain, marine and small engine applications to seal coolant, lubrication and induction systems.**	**1.35 (84)**	**13 - 25**	**35**	**8.28 (1200)**	**Synthetic Blend**	**Nitrile Butadiene**	**Value Grade Roll**	**F729000M9**
N-2085G	A material offering excellent resistance to water, coolant, oil and fuel. Available in close tolerance gauges.	Short duration maximum temperatures up to 190°C (375°F). Common applications include: hermetic compressor valve plate.	1.36 (85)	10 - 20	50	13.79 (2000)	Reinforced Cellulose	Fully Cured[1] Nitrile Butadiene	Roll	F723940E43M6
N-8051	An oil resistant, light-duty material.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: low internal pressure and low flange pressure applications up to 13.8 MPa (2000 psi).	1.30 (81)	10 - 25	40	2.76 (400)	Cellulose	Nitrile Butadiene	Roll	F339000M9, Z1
N-8090	A reinforced cellulose fiber material with excellent oil resistance and good sealing characteristics.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: water pump, transmission housing and fuel systems.	1.28 (80)	15 - 25	35	13.79 (2000)	Reinforced Cellulose	Latent Cure[2] Nitrile Butadiene	Roll	F724900E49M6
N-8092	**A material with excellent crush resistance at high flange pressures and superior sealing properties with oil, fuel and water.**	**Short duration maximum temperatures up to 180°C (350°F). Common applications include: automotive, small engine and compressor applications.**	**1.20 (75)**	**15 - 30**	**35**	**11.03 (1600)**	**Reinforced Cellulose**	**Nitrile Butadiene**	**Value Grade Roll**	**F729900E59M9**
N-8092CT	A material used primarily in applications that require close tolerance gauge control for shimming.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: hermetic compressor valve plate.	1.20 (75)	15 - 30	35	11.03 (1600)	Reinforced Cellulose	Nitrile Butadiene	Roll	F729900E59M9
N-8094	A low density material that conforms well to irregular flange surfaces and has very good crush resistance at high flange pressures.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: oil, fuel and water flanges where moderate conformability is needed.	0.87 (54)	28 - 42	20	> 1.2mm Gauge: 6.90 (1000) All Other Gauges: 8.62 (1250)	Reinforced Cellulose	Nitrile Butadiene	Roll	F729900E99M9
NI-2085	A material resistant to oil, fuel, water and coolant with excellent strength and sealability characteristics.	Short duration maximum temperatures up to 190°C (375°F). Common applications include: oil, fuel, water and coolant applications.	1.36 (85)	10 - 20	50	13.79 (2000)	Reinforced Cellulose	Nitrile Butadiene	Roll	F723940E43M6
NI-2086	A material resistant to oil, fuel, water and coolant with excellent strength and sealability characteristics.	Short duration maximum temperatures up to 190°C (375°F). Common applications include: oil, fuel, water and coolant applications.	1.36 (85)	10 - 20	50	13.79 (2000)	Reinforced Cellulose	Fully Cured[1] Nitrile Butadiene	Roll	F723940E43M6
NI-2095A	A standard cylinder head facing material designed to deliver the performance required for worldwide cylinder head applications. It is easily combined on perforated and solid metal core. (Minimum order requirements may apply).	Designed for cylinder head and intake facing for water-cooled engines.	1.15 (72)	15 - 30	25	4.14 (600)	Hi-Temp Blend	Nitrile Butadiene	Roll	F729150E92M9
NI-2098	A heavy-duty cylinder head facing material used with both solid and perforated metal cores. It is compatible with most polymers used in bead printing processes.	Designed for use in high-performance engine cylinder head and intake manifolds.	1.19 (74)	15 - 30	20	1.72 (250)	Aramid	Nitrile Butadiene	Roll	F729990E52M2
NI-2900	An economical facing material designed to deliver the performance required for worldwide cylinder head and manifold applications. It is easily combined on perforated and solid metal core. (Minimum order requirements may apply).	Designed for cylinder head and intake facing for water-cooled engines.	1.04 (65)	27 - 37	18	3.79 (550)	Hi-Temp Blend	Nitrile Butadiene	Roll	F729150E52M9
NI-4002	A facing material with low ignition loss and good torque retention properties that, when combined on perforated metal core, is intended for elevated temperature applications.	Common applications include: high temperature applications such as exhaust systems.	0.88 (55)	15 - 30	25	2.07 (300)	Hi-Temp Blend	Nitrile Butadiene	Roll	F339997E92M9

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							Fiber	Binder Type		
NV-512	An increased strength and fluid resistant material with very high tensile strength and crush resistance.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: air pump, carburetor, gear box and transmission.	0.96 (60)	10 - 20	60	20.69 (3000)	Cellulose	Fully Cured[1] Nitrile Butadiene	Roll	F333949E43M7
NV-519	A material with excellent tensile strength, crush and erosion resistance against high volume fluid flow and impingement.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: automatic transmission valve body, pump, and accumulator/channel plate as well as carburetor and air compressor.	0.96 (60)	5 - 15	60	27.59 (4000)	Cellulose	Nitrile Butadiene	Roll	F332949E42M8
NV-565	A low density gasket material with good oil, fuel and water resistance that conforms well to irregular flange surfaces.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: carburetor, fuel system and water pump.	0.64 (40)	15 - 30	40	40	Cellulose	Nitrile Butadiene/ Styrene Butadiene	Roll	F339997E93M9
PF-4N	**A material with maximum fluid resistance and excellent sealability in a variety of environments and flange conditions.**	**Short duration maximum temperatures up to 290°C (550°F).**	**1.44 (90)**	**12 - 20**	**45**	**8.97 (1300)**	**Synthetic Blend**	**Fully Cured[1] Nitrile Butadiene**	**Value Grade Roll**	**F729000M9**
PF-4S	**A material designed for various oil, air and coolant applications. It is a replacement for styrene butadiene rubber bound calendared sheet materials and offers improved oil sealability over nitrile butadiene bound materials.**	**Short duration maximum temperatures up to 290°C (550°F). Common applications include: oil pan, front cover, intake manifold and rear seal.**	**1.44 (90)**	**9 - 23**	**45**	**8.62 (1250)**	**Synthetic Blend**	**Fully Cured[1] Styrene Butadiene**	**Value Grade Roll**	**F729000M9**
RN-8011	A low density material providing excellent sealing properties for oil and water at low flange pressures.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: engine and transmission pan, water pump and environmental sealing.	0.61 (38)	35 - 60	15	1.52 (220)	Cellulose	Nitrile Butadiene	Roll	F339099E09M9
S-207	A material used in many aftermarket oil and coolant applications.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: oil and coolant aftermarket sealing.	0.88 (55)	10 - 30	30	9.66 (1400)	Cellulose	Controlled Swell[3] Styrene Butadiene	Roll	F339999E99M9
S-8091	A material used in many OEM and aftermarket oil and coolant applications.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: oil, fuel and low pressure steam sealing for low to moderate loads.	1.20 (75)	15 - 25	25	12.41 (1800)	Reinforced Cellulose	Controlled Swell[3] Latent Cure[2] Styrene Butadiene	Roll	F724900E09M9
SV-360	A low density, general purpose material.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: anti-squeak, dust seal, heater, oil seal, shim stock and water pump.	0.67 (42)	15 - 30	40	10.34 (1500)	Cellulose	Styrene Butadiene	Roll	F339197E93M5
TN-9000	A material with good tensile strength, low creep relaxation and excellent fuel and oil resistance.	Short duration maximum temperatures up to 400°C (750°F). Common applications include: applications with high flange pressures and temperatures.	1.44 (90)	7 - 17	50	17.24 (2500)	Aramid	Fully Cured[1] Nitrile Butadiene	Roll	F729900E33M9
TN-9001	A heavy-duty material with excellent oil resistance.	Short duration maximum temperatures up to 400°C (750°F). Common applications include: small engine muffler gaskets and general heavy-duty diesel engine oil sealing.	1.28 (80)	15 - 30	40	13.79 (2000)	Aramid	Latent Cure[2] Nitrile Butadiene	Roll	F729900E49M6
TN-9004	A heavy-duty, high density material with good tensile strength and excellent resistance to fuel and oil.	Short duration maximum temperatures up to 350°C (650°F). Common applications include: general heavy-duty engine and transmission oil sealing.	1.52 (95)	5 - 20	45	17.24 (2500)	Aramid	Fully Cured[1] Nitrile Butadiene	Roll	F729100E33M9
TN-9005	A heavy-duty material that conforms well to irregular flange surfaces.	Short duration maximum temperatures up to 350°C (650°F). Common applications include: fuel/air delivery, transmission, and coolant systems.	1.28 (80)	15 - 30	25	10.34 (1500)	Aramid	Latent Cure[2] Nitrile Butadiene	Roll	F729900E59M5
TN-9014	A material with excellent fuel and oil resistance.	Short duration maximum temperatures up to 290°C (550°F). Common applications include: water pumps and general automotive, light diesel and small engine oil sealing.	1.44 (90)	7 - 20	45	17.24 (2500)	Aramid / Cellulose	Fully Cured[1] Nitrile Butadiene	Roll	F729900E99M9

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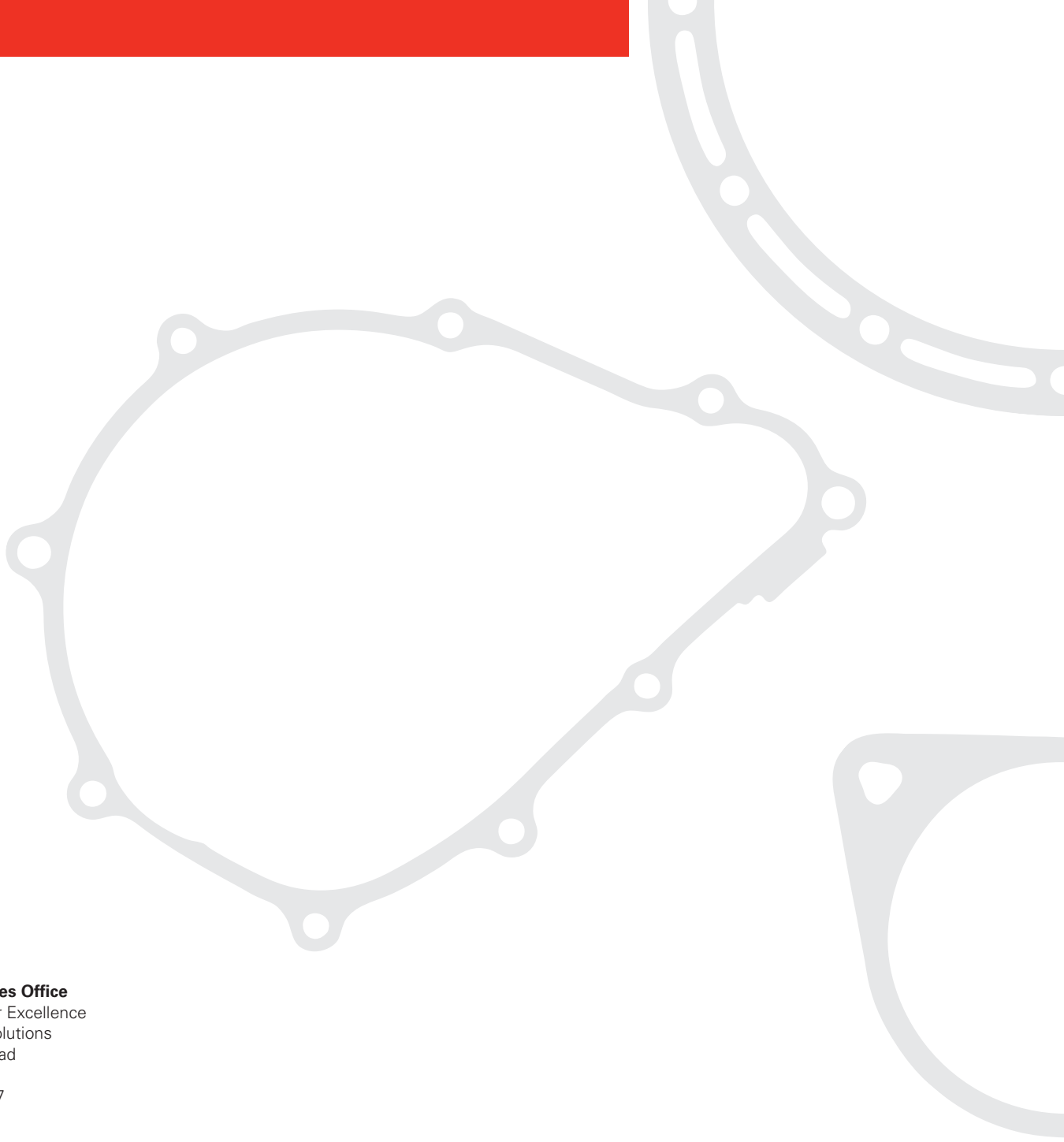
TN-9015	A material that conforms well to irregular flange surfaces and has excellent resistance to fuel and oil.	Short duration maximum temperatures up to 290°C (550°F). Common applications include: fuel/air delivery, transmission, natural gas and coolant systems.	1.28 (80)	12 - 27	30	10.34 (1500)	Aramid / Cellulose	Latent Cure[2] Nitrile Butadiene	Roll	F729900E99M5
TN-9040	A high density material with high mechanical integrity. It has excellent crush resistance, good creep relaxation properties and high tensile strength.	Short duration maximum temperatures up to 290°C (550°F). Common applications include: heavy-duty flanges with high load and or high shear forces, and high internal pressure ATF gaskets.	1.49 (93)	7 - 17	40	27.59 (4000)	Aramid	Fully Cured[1] Nitrile Butadiene	Roll	F729900E43M8
TN-9045	A heavy-duty material for use in elevated temperature applications.	Designed for exhaust sealing at typical internal combustion engine temperatures. Common applications include: exhaust header and collector gaskets.	1.28 (80)	10 - 25	45	10.34 (1500)	Acrylic Blend	Acrylic	Roll	F729900E93M5
TS-9003	A material with good oil sealing characteristics at low flange pressure that conforms well to irregular flange surfaces. It is an alternative to high-swell compressed sheet materials.	Short duration maximum temperatures up to 350°C (650°F). Common applications include: oil pans and stamped cover gaskets.	1.44 (90)	15 - 30	20	6.90 (1000)	Aramid	Controlled Swell[3] Latent Cure[2] Styrene Butadiene	Roll	F729900E09M4
TS-9006	A heavy-duty, high density material.	Short duration maximum temperatures up to 350°C (650°F). Common applications include: oil, water and steam applications with high flange pressures.	1.52 (95)	5 - 20	40	10.34 (1500)	Aramid	Fully Cured[1] Styrene Butadiene	Roll	F729900E09M5
TS-9013	A material that conforms well to irregular flange surfaces.	Short duration maximum temperatures up to 290°C (550°F). Common applications include: water and oil sealing.	1.36 (85)	12 - 25	25	8.28 (1200)	Aramid / Cellulose	Styrene Butadiene	Roll	F729900E09M9
TS-9016	A fully cured material for additional strength and degradation resistance.	Short duration maximum temperatures up to 290°C (550°F). Common applications include: water and oil sealing.	1.44 (90)	10 - 25	40	12.41 (1800)	Aramid / Cellulose	Fully Cured[1] Styrene Butadiene	Roll	F729900E09M9
VB-72	**A high performance material with excellent erosion resistance, designed specifically for valve body and other heavy-duty applications with exposure to high fluid pressures and flow rates.**	**Short duration maximum temperatures up to 290°C (550°F). Common applications include: heavy-duty applications with exposure to high fluid pressures and flow rates.**	1.47 (92)	5 - 20	40	15.86 (2300)	Synthetic Blend	Fully Cured[1] Nitrile Butadiene	Value Grade Roll	F729900M9
2331	An environmentally compatible, low density gasket material formulated from recycled gasket materials.	Short duration maximum temperatures up to 180°C (350°F). Common applications include: general, light-duty applications.	0.56 (35)	15 - 35	35	6.90 (1000)	Cellulose	Styrene Butadiene	Roll	F339177E73M4

* **Typical Values**: Average values determined in accordance with ASTM F104 testing methods for Type 7 materials. Should not be used as a basis for material specifications. Material thickness of 0.8mm (0.031") used for all testing. All specifications developed on 3 sigma limits of physical property data.

(1) **Fully Cured** materials have rubber binders which are vulcanized during formation or in subsequent processes for added initial strength and fluid resistance.

(2) **Latent Cure** materials are specially formulated for initial conformability which help to seal rough flanges. The presence of heat in the application activates ingredients which vulcanize the material to provide the benefits of fully cured[1] products.

(3) **Controlled Swell** materials are latent cure[2] products which use Styrene Butadiene Rubber (SBR) binders. Significant thickness increase occurs at the exposed internal edge of the gasket with many fluids, dramatically improving sealability. The heat of application then vulcanizes the material to limit further swelling and provide fully cured[1] performance.



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