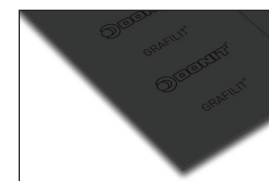


GRAFILIT®



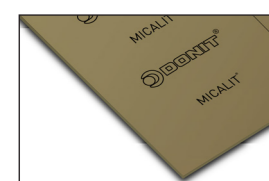
Size [mm]
1000 x 1000 | 1500 x 1500 (SF, SL, SP, EM, MF)
1000 x 1000 | 1000 x 2000 | 1500 x 1500 (IQ)
Thickness [mm]
0.5 | 1.0 | 1.5 | 2.0 | 3.0 (SF, SL)
1.0 | 1.5 | 2.0 | 3.0 (SP, EM, IQ, MF)
Other sizes and thicknesses available on request

	SF	SL	SP	EM	IQ	MULTIFORCE
Composition	Expanded natural graphite (>99% carbon content)	Expanded natural graphite (>99% carbon content) & tanged stainless steel foil (AISI 316; 0.05 mm) insert	Expanded natural graphite (>99% carbon content) & tanged stainless steel sheet (AISI 316; 0.1 mm) insert	Expanded natural graphite (>99% carbon content) & expanded stainless steel mesh (AISI 316L; 0.15 mm) insert	Expanded natural graphite >99% (initial graphite purity >99%) doped with self-oxidation & flange-corrosion inhibitors, and laminated to an expanded chromium-nickel-steel insert (AISI 316L; 0.15 mm)	Expanded natural graphite foils (>99% purity) containing oxidation inhibitor, reinforced with multiple stainless steel flat foils (SS 316L; thickness 0.05 mm)
Color	Black	Black	Black	Black	Silver	Black
Properties	Specific for medium operating pressures & high temperatures (but also for cryogenic), with excellent chemical-resistance combined with high compressibility	Specific for high operating pressures & temperatures (but also for cryogenic), with excellent chemical-resistance	Specific for high operating pressures & temperatures (but also for cryogenic), with excellent chemical-resistance & blowout-resistance	Specific for high operating pressures & temperatures (but also for cryogenic), with excellent chemical-resistance & blowout-resistance especially for cycling loads	Exceptional thermomechanical properties & an outstanding anti-stick performance; compatible with a wide range of media, high self-oxidation resistant, suitable for cyclic operations, inert to flange corrosion	Excellent chemical and thermal resistances, high creep resistance and high compressibility rendering it suitable for highly demanding conditions with hot and/or corrosive media
Industries	Water supply; Potable water supply; Chemical industry; Petrochemical industry; Refrigeration & cooling; High-temperature applications	Potable water supply; Steam supply; Chemical industry; Power plant; Heating systems; High-temperature applications	General purpose; Steam supply; Gas supply; Chemical industry; Heating systems; High-temperature applications	Steam supply; Gas supply; Chemical industry; Petrochemical industry; Heating systems; High-temperature applications	General purpose; Steam supply; Gas supply; Chemical industry; Petrochemical industry; Paper & cellulose industries; Automotive & engine building industries; Shipbuilding; Power plant; Refrigeration & cooling; Heating systems; High-temperature applications; Compressors & pumps; Valves	Chemical industry; Petrochemical industry; Nuclear power plants; High-temperature applications; Heating systems; Steam supply; Water supply; Gas supply; Refrigeration & cooling; Compressors & pumps; Valves
Approvals & compliances	DVGW DIN 3535-6 ; DVGW DIN 30653 (5 bars) ; BAM (oxygen) ; DNV	BAM (oxygen)	DVGW DIN 3535-6 ; DVGW DIN 30653 (5 bars) ; API 607 ; BAM (oxygen) ; DNV	DVGW DIN 3535-6 ; ISO 10497 (API 607) ; TA-Luft (VDI 2440) ; DNV ; ABS	DVGW DIN 3535-6 ; ISO 10497 (API 607) ; TA-Luft (VDI 2440) ; DNV ; ABS ; EN 12308 (LNG & Cryogenic applications)	Fire Safe API 6FB ; DVGW DIN 3535-6 ; BAM (oxygen)

TECHNICAL DATA Typical values for a thickness of:	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm	2.0 mm
Density	DIN 28090-2	1.3	1.3	1.3	1.4	/
Density (plain graphite)	DIN 28090-2	1.0	1.0	1.0	1.0	1.1
Total sulfur content	ASTM D5016	/	/	/	/	<250
Leachable chloride content	FSA NMG 202	ppm	20	20	20	<50
Leachable fluoride content	FSA NMG 203	ppm	20	20	20	<20
Leachable halogen content	/	/	/	/	/	<100
Ash content	DIN 51903	%	<1	<1	<1	<0.5
Weight loss (air, 670 °C, 4 h)	DIN 28090-2	%/h	/	/	<4	<3
Compressibility	ASTM F36A	%	45	42	35	35
Recovery	ASTM F36A	%	13	15	17	20
Tensile strength	ASTM F152	MPa	/	/	/	25
Longitudinal	/	/	/	/	/	9
Transversal	/	/	/	/	/	/
Residual stress	DIN 52913	MPa	/	/	/	/
50 MPa, 300 °C, 16 h	MPa	49	49	49	49	49
Specific leak rate	DIN 3535-6	mg/(s.m)	0.05	0.05	0.02	<0.02
Thickness increase	ASTM F146	%	/	/	/	3.5
Oil IRM 903, 150 °C, 5 h	/	/	/	/	/	5
ASTM Fuel B, 23 °C, 5 h	%	/	/	/	/	/
Compression modulus	DIN 28090-2	%	4.1	3.8	3.4	3.2
At room temperature: ϵ_{300K}	%	0.9	1.2	1.2	2.5	2.5
At elevated temperature: $\epsilon_{300/200}^{\circ C}$	%	5.0	4.3	4.2	4.5	5
Creep relaxation	DIN 28090-2	%	4.0	3.6	3.3	3.5
At room temperature: ϵ_{300K}	%	4.0	3.6	3.3	3.5	4
At elevated temperature: $\epsilon_{300/200}^{\circ C}$	%	4.0	3.6	3.3	3.5	4
Operating conditions						
Minimum temperature	°C/°F	-200/-328	-200/-328	-200/-328	-200/-328	-200/-328
Maximum continuous temperature	°C/°F	550/1022	550/1022	550/1022	550/1022	550/1022
- under oxidizing atmosphere	°C/°F	700/1292	700/1292	700/1292	700/1292	700/1292
- under reducing or inert atmosphere	°C/°F	80/1160	100/1450	200/2900	150/2175	250/3626
Maximum pressure	bar/psi	80/1160	100/1450	200/2900	150/2175	250/3626

*Lifespan might be limited at high temperatures. Consult our Application Engineering when operating temperatures exceed 450°C/842°F.

MICALIT®



Size [mm] 1000 x 1200
Thickness [mm]
0.4 - 3.0 (F) | 1.5 | 2.0 | 3.0 (P)

	F	P
Composition	Phlogopite mica flakes, silicon resin	Phlogopite mica flakes, silicon resin, tanged stainless steel insert (AISI 316L in 0.1 mm)
Color	Yellow-Brown	Yellow-Brown
Properties	Excellent thermal, good chemical and mechanical properties; good dielectric and low thermal conductivity properties	Excellent thermal, good chemical and mechanical properties; good dielectric and low thermal conductivity properties
Industries	Chemical industry; Petrochemical industry; Automotive & engine building industries; Heating systems; High-temperature applications	Chemical industry; Petrochemical industry; Automotive & engine building industries; Heating systems; High-temperature applications

TECHNICAL DATA Typical values for 2 mm thickness		
Mica content	%	>90
Binder content	%	<10
Density	DIN 28090-2	g/cm ³ 1.90
Compressibility	ASTM F36J	% 15-35
Recovery	ASTM F36J	% 30-45
Weight loss (at 800 °C)	DIN 52911	% <5
Tensile Strength	ASTM F152	MPa >20
Residual stress	DIN 52913	MPa 42
50 MPa, 300 °C, 16 h	MPa	40
Dielectric Strength	ASTM D149	kV/mm >15
50 % RH, 23 °C, 24 h	W/(m.K)	0.3
Thermal Conductivity	W/(m.K)	3.0
at 20 °C perpendicular	W/(m.K)	0.3
at 20 °C horizontal	W/(m.K)	3.0
Compression modulus	DIN 28090-2	% 14.4
At room temperature: ϵ_{300K}	%	6.4
At elevated temperature: $\epsilon_{300/200}^{\circ C}$	%	20.3
Max. operating temperature	°C	950
Max. operating pressure	bar	5

DONIFLON®

Size [mm]
1500 x 1500
Thickness [mm]
0.5 | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 (900E)
1.5 | 2.0 | 3.0 (2010, 2020, 2030)

	900E	2010	2020	2030
Composition	Expanded PTFE	PTFE & hollow glass microbeads	PTFE & silica [SiO ₂]	PTFE & barium sulfate [BaSO ₄]
Color	White	Blue	Pink	White
Properties	Outstanding weathering-resistance, wide range chemical-resistance (excluding very strong alkaline solutions at elevated temperatures), withstands wide window of temperatures (from cryogenic to medium-high), excellent compressibility (conforms well to mechanically-sensitive glass, ceramic or plastic flanges), and reduced cold-flow	Outstanding weathering-resistance, wide range chemical-resistance (excluding very strong alkaline solutions at elevated temperatures), withstands wide window of temperatures (from cryogenic to medium-high), excellent compressibility (conforms well to mechanically-sensitive glass, ceramic or plastic flanges), enhanced structure (to plain PTFE) for reduced cold-flow	Outstanding weathering-resistance, wide range chemical-resistance (excluding very strong alkaline solutions at elevated temperatures and hydrofluoric acid) especially against concentrated/strong inorganic acids, withstands wide window of temperatures (from cryogenic to medium-high), excellent compressibility (conforms well to mechanically-sensitive glass, ceramic or plastic flanges), enhanced structure (to plain PTFE) for reduced cold-flow	Outstanding weathering-resistance, wide range chemical-resistance (excluding very strong alkaline solutions at elevated temperatures and hydrofluoric acid) especially against concentrated/strong inorganic acids, withstands wide window of temperatures (from cryogenic to medium-high), excellent compressibility (conforms well to mechanically-sensitive glass, ceramic or plastic flanges), enhanced structure (to plain PTFE) for reduced cold-flow
Industries	Steam supply; Chemical industry; Petrochemical industry; Pharmaceutical industry; Food industry; Heating systems	Gas supply; Chemical industry; Petrochemical industry; Pharmaceutical industry; Food industry; Refrigeration & cooling	General purpose; Potable water supply; Chemical industry; Petrochemical industry; Pharmaceutical industry; Food industry; Refrigeration & cooling	Potable water supply; Steam supply; Gas supply; Chemical industry; Petrochemical industry; Pharmaceutical industry
Approvals & compliances	EC 1935/2004 (EU No. 10/2011)	Please inquire	BAM (oxygen); EN 12308 (LNG & Cryogenic applications); EU No. 10/2011; FDA; TA-Luft (VDI 2440)	Please inquire

TECHNICAL DATA Typical values for 2 mm thickness				
Density	DIN 28090-2	g/cm ³ 0.8	1.5	2.1
Compressibility	ASTM F36J	% 55	35	7
Recovery	ASTM F36J	% 12	40	45
Tensile strength	ASTM F152	MPa 32	14	14
Residual stress	DIN 52913	MPa 16	14	13
30 MPa, 300°C, 16 h	MPa	0.002	0.002	0.002
Specific leak rate	DIN 3535-6	mg/(s.m) 0-14	0-14	0-14
pH range		0-14	0-14	0-14
Operating conditions				
Minimum temperature	°C/°F	-200/-328	-200/-328	-200/-328
Maximum temperature	°C/°F	260/500	260/500	260/500
Max pressure	bar/psi	200/2900	60/870	80/1160



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QUALITY AND EXPERIENCE YOU CAN RELY ON

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TESNIT®

BASIC SHEET FEATURES

Size (mm)	1500 x 1500 3000 x 1500 4500 x 1500 (BA-202, BA-203, BA-50, BA-55, BA-U, BA-CF, BA-M, BA-GL, BA-SOFT)
	1500 x 1500 (BA-R, BA-REM)
	1500 x 1400 Rolls (BA-R300)
	500 x 1400 (BA-R302)
	Other sizes available on request
Thickness (mm)	0.5 1.0 1.5 2.0 3.0 (BA-202, BA-203, BA-50, BA-55, BA-U, BA-CF, BA-M, BA-GL, BA-SOFT)
	1.0 1.5 2.0 3.0 (BA-R, BA-REM)
	0.7 1.0 1.2 1.4 2.0 2.5 3.0 (BA-R300)
	1.4 1.6 2.0 3.0 (BA-R302)
Surface finish	2AS: BA-202, BA-203
	4AS: BA-50, BA-55, BA-U, BA-CF, BA-M, BA-GL, BA-REM, BA-SOFT
	2G: BA-R, BA-R300, BA-302
	Optional on request: graphite or PTFE
Tolerances	± 5 % on length and width On thickness up to 1.0 mm ± 0.1 mm On thickness above 1.0 mm ± 10 %

BA-202

BA-203

BA-50

BA-55

BA-U

BA-SOFT

BA-U2000

BA-CF

BA-GL

BA-R

BA-REM

BA-R300

BA-R302

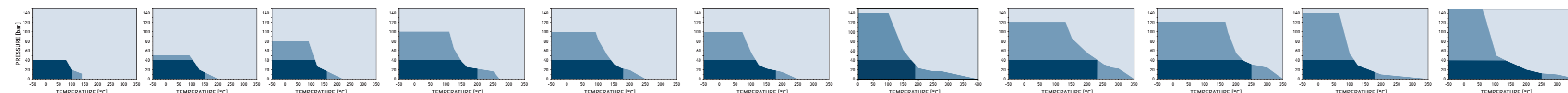
Composition	Cellulose fibers, inorganic fillers, & NBR binder (optional on request with steel wire mesh insert)	Aramid fibers, inorganic fillers, & NBR binder (optional on request with steel wire mesh insert)	Aramid & cellulose fibers, inorganic fillers, & NBR binder (optional on request with steel wire mesh insert)	Biosoluble mineral & aramid fibers, inorganic fillers, & NBR binder (optional on request with steel wire mesh insert)	Aramid fibers, inorganic fillers, & NBR binder (optional on request with steel wire mesh or expanded steel mesh insert)	Synthetic fibers, special fillers, NBR	Aramid fibers, inorganic fillers, NBR binder	Carbon fibers, inorganic fillers, & NBR binder (optional on request with steel wire mesh or expanded steel mesh insert)	Glass & aramid fibers, inorganic fillers, & NBR binder (optional on request with steel wire mesh or expanded steel mesh insert)	Aramid fibers, inorganic fillers, NBR binder & carbon-steel wire mesh insert	Glass & aramid fibers, inorganic fillers, NBR binder & expanded galvanized steel mesh insert	Biosoluble mineral fibers, inorganic fillers, NBR binder, & tough carbon steel wire mesh insert	Tanged carbon steel sheet sandwiched with TESNIT® BA-R300
Color	Pink / Red	Yellow	Light green	Dark green	Blue	Lemon	Blue	Black	Greenish-blue / Green	Black	Green	Black	Black
Properties	Specific for low-demanding applications. Very good sealability performances	Specific for low-demanding applications. Good thermal-resistance.	Good thermal-, chemical- and dynamic-resistances	Good thermal-, chemical- and steam-resistances	Very good thermomechanical performance, chemical resistance and sealability	Best in class sealing performance; highly compressible and adaptable, highly forgiving; combined with very good thermomechanical performance	Excellent thermomechanical performance; very good chemical resistance and sealability	Excellent thermal-resistance and very good chemical-resistance to steam and strong alkaline media	Excellent thermomechanical performance, chemical-resistance and outstanding bolt torque retention	Very good mechanical resistance and excellent bolt torque retention	Excellent resistance to high internal and surface pressure with good thermal properties. Outstanding bolt torque retention	Superior thermomechanical performance and blowout-resistance dynamic-resistance	Superior thermomechanical performance and blowout-resistance
Industries	General purpose; Water supply; Shipbuilding	General purpose; Water supply; Shipbuilding	General purpose; Water supply; Potable water supply; Gas supply; Food industry; Automotive & engine-building industries	General purpose; Potable water supply; Steam supply; Gas supply; Food industry; Heating systems	General purpose; water supply, gas supply, potable water supply, petrochemical industry, chemical industry, shipbuilding, food industry, automotive&engine building, refrigeration& cooling; heating systems, compressors, pumps, valves	General purpose, water supply, gas supply, potable water supply, petrochemical industry, chemical industry, shipbuilding, food industry, automotive&engine building, refrigeration& cooling; heating systems, compressors, pumps, valves; gearboxes	General purpose, water supply, gas supply, petrochemical industry, chemical industry, food industry, automotive&engine building, refrigeration& cooling; heating systems, compressors, pumps, valves	Steam supply; Gas supply; Chemical industry; Petrochemical industry; Paper & cellulose industries; High-temperature applications	Steam supply; Gas supply; Shipbuilding; Power plant; Heating systems; High temperature-applications	Automotive & engine-building industries; Shipbuilding	Steam supply; Petrochemical industry; Shipbuilding; Power plant; High-temperature applications	Steam supply; Automotive & engine-building industries; Shipbuilding; Power plant; High-temperature applications	Steam supply; Automotive & engine-building industries; Shipbuilding; Power plant; High-temperature applications
Approvals & compliances	<i>Please inquire</i>	DNV	DVGW DIN 3535-6 ; SVGW DIN 3535-6 ; ELL (hot) ; TZW W 270 ; WRAS ; TA-Luft (VDI 2440) ; DNV ; EC 1935/2004	DVGW DIN 3535-6 ; DVGW DIN 30653 (5 bars) ; ELL (hot) ; TZW W 270 ; BAM (oxygen) ; EC 1935/2004 ; BS 7531 Grade X	DVGW DIN 3535-6 ; SVGW DIN 3535-6 ; DVGW DIN 30653 ; TZW ELL (hot) ; TZW W 270 ; WRAS ; TA-Luft (VDI 2440) ; BAM (oxygen) ; DNV ; ABS ; AGA AS 4423 ; EC 1935/2004	TA-Luft (VDI 2440) ; W270; DVGW DIN 3535-6 ; ELL ; EC 1935/2004	DVGW DIN 3535-6 ; DVGW DIN 30653 ; BAM (oxygen) ; TA-Luft (VDI 2440) ; EC 1935/2004	DVGW DIN 3535-6 ; DVGW DIN 30653 (5 bars) ; BAM (oxygen) ; DNV ; BS 7531 Grade X	DVGW DIN 3535-6 ; DVGW DIN 30653 ; TZW ELL (cold) ; WRAS ; BAM (oxygen) ; TA-Luft (VDI 2440) ; DNV ; ISO 10497 (API 607) ; ABS ; EC 1935/2004 ; BS 7531 Grade X	BAM (oxygen) ; DNV	<i>Please inquire</i>	DNV	DNV

TECHNICAL DATA Typical values for 2 mm thickness (BA-REM 1.5 mm)

Density	DIN 28090-2	g/cm³	1.8	1.8	1.8	1.8	1.7	1.5	1.7	1.7	1.8	2.0	2.2	3.2	3.7
Compressibility	ASTM F36J	%	9	10	9	7	11	25	8	10	7	8	7	10	8
Recovery	ASTM F36J	%	60	60	55	55	60	64	55	60	55	50	35	40	45
Tensile strength	ASTM F152	MPa	8	8	11	7	14	6	18	13	17	17	35	/	/
Residual stress	DIN 52913														
50 MPa, 175 °C, 16 h		MPa	20	25	25	35	27	30	35	35	38	30	43	46	48
50 MPa, 300 °C, 16 h		MPa	/	/	/	30	23	20	25	27	33	25	38	40	45
Specific leak rate	DIN 3535-6	mg/(s·m)	0.04	0.08	0.07	0.06	0.02	0.009	0.02	0.05	0.03	/	/	/	/
Thickness increase	ASTM F146														
Oil IRM 903, 150°C, 5 h		%	10	8	8	8	2	2	3	5	3	8	5	5	5
ASTM Fuel B, 23°C, 5 h		%	10	10	10	10	5	6	5	6	5	/	8	/	/
Compression modulus	DIN 28090-2														
At room temperature: ϵ_{KSW}		%	/	/	8.5	7.6	9.5	18.4	8	10.8	6.9	8.5	6.5	11.1	7.1
At elevated temperature: $\epsilon_{KSW/200^\circ C}$		%	/	/	25	11.4	16.1	14.6	9	11.0	7.9	15.8	5.8	6.9	6.3
Creep relaxation	DIN 28090-2														
At room temperature: ϵ_{KSW}		%	/	/	5.1	3.2	4.7	10	2.5	4.1	3.3	4.2	3.2	3.4	2.2
At elevated temperature: $\epsilon_{KSW/200^\circ C}$		%	/	/	1.2	0.8	0.8	1.6	1.5	0.8	1.2	0.7	0.5	0.4	0.5
Maximum operating conditions															
Peak temperature		°C/°F	180/356	250/482	280/536	350/662	350/662	350/662	400/752	440/824	440/824	400/752	460/860	550/1022	650/1202
Continuous temperature		°C/°F	140/284	200/392	220/428	270/518	250/482	250/482	280/536	350/662	350/662	350/662	370/698	450/842	600/1112
Continuous temperature with steam		°C/°F	120/248	160/320	180/356	230/446	200/392	200/392	200/392	300/572	250/482	/	250/482	/	/
Pressure		bar/psi	40/580	50/725	80/1160	100/1450	100/1450	100/1450	140/2030	120/1740	120/1740	140/2030	150/2175	/	/

P-T DIAGRAM EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2 mm

- General suitability - Under common installation practices and chemical compatibility
- Conditional suitability - Appropriate measures ensure maximum performance for joint design and gasket installation. Technical consultation is recommended
- Limited suitability - Technical consultation is mandatory.
- Saturated steam curve



P-T diagrams indicate the maximum permissible combination of internal pressure and service temperature which can be simultaneously applied to a given gasket's thickness, size and tightness class. Given the wide variety of gasket applications and service conditions, these values should only be regarded as a guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

DONIFLEX®

BASIC SHEET FEATURES

Size (mm)	1500 x 1480 2000 x 1480 Rolls: 1480 mm x L (m)
Thickness (mm)	1.0 1.5 2.0 3.0 Rolls: 0.5 1.0 1.5 2.0
Surface finish	Standard: 4AS. Optional: IQ, graphite or PTFE.

Composition	Graphite, aramid fibers, functional inorganic fillers, NBR binder; optionally available with expanded reinforcement (AISI 316L, 0.15 mm)
Color	Anthracite
Properties	Excellent physicochemical properties, high compressibility & flexibility, fitted with a highly performant anti-stick, devoid of any organic solvent
Industries	General purpose; Water supply; Potable water supply; Steam supply; Chemical industry; Petrochemical industry; Paper & cellulose building industries; Automotive & engine building industries; Power plant; Heating systems; High-temperature applications; Valves
Approvals & compliances	<i>Please inquire</i>

TECHNICAL DATA Typical values for 2 mm thickness

Density	DIN 28090-2	g/cm³	1.25
Compressibility	ASTM F36J	%	35
Recovery	ASTM F36J	%	25
Tensile strength	ASTM F152	MPa	
Longitudinal			5
Transversal			5
Stress resistance	DIN 52913		
50 MPa, 16 h, 175 °C		MPa	42
50 MPa, 16 h, 300 °C		MPa	37
Specific leak rate	DIN 3535-6	mg/(s·m)	0.05
Thickness increase	ASTM F146		
Oil IRM 903, 5 h, 150 °C		%	3
ASTM Fuel B, 5 h, 23 °C		%	3
Weight increase			
Oil IRM 903, 5 h, 150 °C		%	30
ASTM Fuel B, 5 h, 23 °C		%	25
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{KSW}		%	30
At elevated temperature: $\epsilon_{KSW/200^\circ C}$		%	6
Creep relaxation	DIN 28090-2		
At room temperature: ϵ_{KSW}		%	3.5
At elevated temperature: $\epsilon_{KSW/200^\circ C}$		%	0.3
Creep deformation			
Change in thickness at 20 °C, 50 MPa		%	30
Change in thickness at 300 °C, 50 MPa		%	12
Change in thickness at 400 °C, 50 MPa		%	15
Leachable chloride content	FSA NMG 202	ppm	<20
Leachable fluoride content	FSA NMG 203	ppm	<20

