

 **DONIT**[®]
Made in EU

 **DONIT**[®]
A perfect fit

TESNIT[®]

DONIFLEX[®]

GRAFILIT[®]

DONIFLON[®]

MICALIT[®]

WE ARE
A TRUE
PARTNER
FOR YOUR
SUCCESS

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Latin America
DONIT TESNIT LATIN AMERICA

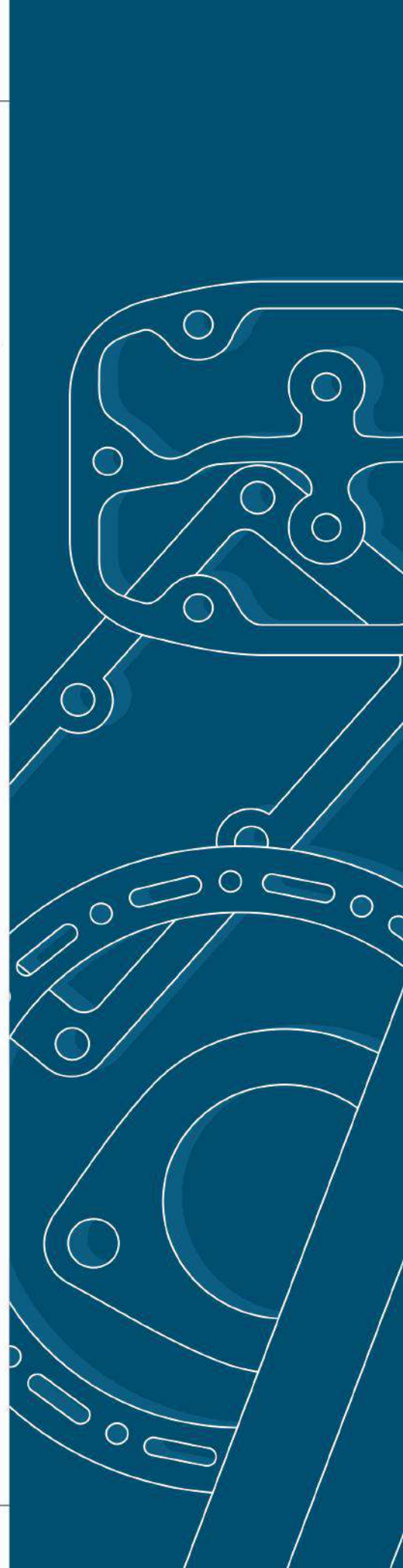
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A perfect fit
of **TRUST**
COMMITMENT
POSSIBILITIES

Customer and challenge
driven innovation

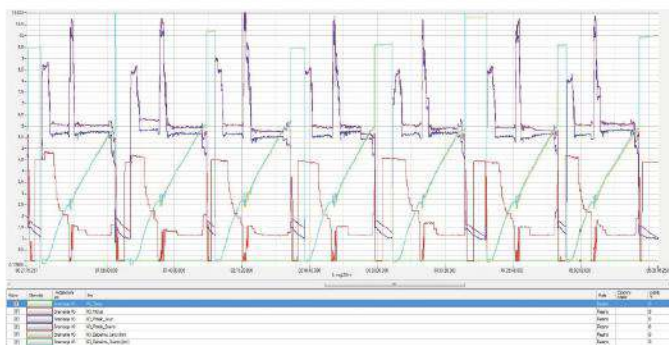
High level of flexibility

Adapt to new changes

Broad portfolio of gasket materials and products

BEST PRACTICE
SOLUTIONS

Quality control



To ensure quality, higher productivity and less maintenance complexity we constantly monitor our calendars:

Temperature, pressure and velocity during production

Repeatability

Non working intervals



MADE IN THE EU WITH A PRESENCE IN MORE THAN 65 COUNTRIES SUPPLYING CONSISTENT QUALITY TO THE WORLD.





DONIT® Industrial Sealing Solutions is a DONIT TESNIT d.o.o.'s business unit with a complete portfolio of solutions, with local and international support. At DONIT® Industrial Sealing Solutions we are focused towards superior customer intimacy / knowledge and toward making our clients' business easier.

PRODUCT MATERIAL RANGE:

DONIT® Industrial Sealing Solutions

<p>NON-METALLIC FLAT GASKETS</p>	<p>SEMI-METALLIC FLAT GASKETS</p>	<p>METAL GASKETS</p>	<p>NUTS & BOLTS DISC SPRING WASHERS</p>	<p>HIGH THERMAL INSULATION PRODUCTS</p>	<p>EXPANSION JOINTS</p>	<p>CONSULTING & SUPPORT TRAINING</p>



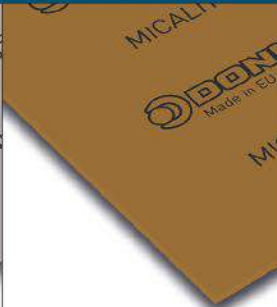




DONIT® Gasket Sheets is a DONIT TESNIT d.o.o.'s business unit that produces high quality gasket sheets, certified by renowned industry standards. At DONIT® Gasket Sheets, we are focused on superior customer knowledge, on providing reliable and optimal solutions, on innovation and on excellent application engineering.

PRODUCT MATERIAL RANGE

DONIT® Gasket Sheets

 <p>TESNIT® FIBER-BASED MATERIALS</p>	 <p>DONIFLEX® FIBER-REINFORCED GRAPHITE-BASED MATERIALS</p>	 <p>GRAFILIT® EXPANDED GRAPHITE-BASED MATERIALS</p>	 <p>DONIFLON® PTFE-BASED MATERIALS</p>	 <p>MICALIT® MICA-BASED MATERIALS</p>
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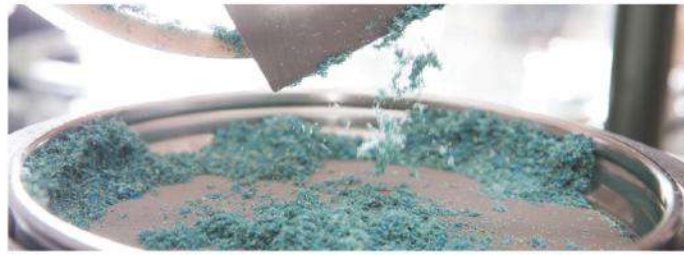
APPLICATION AREAS

We offer a wide range of gasket materials in different sheet sizes for:

	TRADE NAME	GENERAL PURPOSE	WATER SUPPLY	POTABLE WATER SUPPLY	STEAM SUPPLY	GAS SUPPLY	CHEMICAL INDUSTRY	PETROCHEMICAL INDUSTRY	PHARMACEUTICAL	FOOD INDUSTRY	PAPER AND CELLULOSE INDUSTRIES	AUTOMOTIVE AND ENGINE BUILDING INDUSTRY	SHIPBUILDING	POWER PLANT	REFRIGERATION AND COOLING	HEATING SYSTEMS	HIGH TEMP. APPLICATIONS
GASKET SHEETS	TESNIT®	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●
	DONIFLEX®	●	●	●	●	●	●	●			●	●	●	●		●	●
	GRAFILIT®	●	●	●	●	●	●	●			●	●	●	●	●	●	●
	DONIFLON®	●		●	●	●	●	●	●	●	●				●		
	MICALIT®						●	●				●				●	●

STRONG R&D, WITH A FOCUS ON INNOVATION

Well-equipped state-of-the-art laboratories coupled with a multidisciplinary R&D team and enhanced with external collaborations enable us to provide you with the optimized sealing materials or gaskets which meet your utmost challenging demands.



Excellent application engineering

We have experience in even the most demanding of industries from chemical and oil through to automotive and food.



Training for our customers

The DONIT® Authorized Training Center offers intensive, interactive and case-driven educative courses to our customers. These theoretical and practical training courses provide the required knowledge for the selection and installation of the optimum gasket per application.

- Day 1 - module 1:** Introduction to our gasket materials
- Day 2 - module 2:** Introduction to our gaskets and their proper assembly



One company - two business units:



BASIC SHEET FEATURES

TESNIT®

BA-202

BA-203

BA-50

BA-55

BA-U

BA-CF

BA-M

Size (mm)	1500 x 1000 (3000 x 1500) (A500 x 1500) (BA-202, BA-203, BA-50, BA-55, BA-U, BA-CF, BA-M, BA-GL) 1500 x 1000 (BA-R, BA-REM) 1500 x 1400 (Baile) (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) 1.0 1.5 2.0 3.0 (BA-R, BA-REM) 0.7 1.0 1.2 1.4 1.6 2.0 2.5 3.0 (BA-R300) 1.4 1.5 (BA-R302)
Surface finish	Surface finish is 2A5. (BA-202, BA-203) Surface finish is A05. (BA-50, BA-55, BA-U, BA-CF, BA-M, BA-GL, BA-REM) Surface finish is 3E. (BA-R, BA-R300, BA-R302) Optional graphite or PTFE finish on request.
Tolerances	± 5% on length and width On thickness up to 1.0 mm ± 0.1 mm On thickness above 1.0 mm ± 10%

Composition	Cellulose fibres, inorganic fillers, NBR binder. Optional steel wire mesh insert on request.	Aramid fibres, inorganic fillers, NBR binder. Optional steel wire mesh insert on request.	Aramid fibres, inorganic fillers, NBR binder. Optional steel wire mesh insert on request.	Engineered bio-soluble mineral fibres, aramid fibres, inorganic fillers, NBR binder. Optional steel wire mesh insert on request.	Aramid fibres, inorganic fillers, NBR binder. Optional steel wire mesh insert on request.	Carbon fibres, inorganic fillers, NBR binder. Optional steel wire mesh or expanded steel insert on request.	Engineered bio-soluble mineral fibres, aramid fibres, inorganic fillers, NBR binder. Optional steel wire mesh or expanded steel insert on request.	
Colour	Pink / Red	Yellow	Light green	Dark green	Blue	Black	Greenish Blue / Grey	
Properties	Material has good mechanical and sealing properties. It has been designed for non-demanding applications.	Material with good thermal resistance, designed for less demanding applications.	Material has good thermal, chemical, and dynamic resistance.	Material has good thermal and chemical properties and resistance to clean.	Material for general purpose with good mechanical and thermal properties and low gas permeability.	Material has excellent thermal properties and very good chemical resistance to steam and strong alkaline media.	Material possesses excellent fire mechanical properties, especially bolt torque retention.	Material possesses excellent fire mechanical properties, especially bolt torque retention.
Appropriate industries	General purpose, water supply, shipbuilding.	General purpose, water supply, shipbuilding.	General purpose, water supply, potable water supply, gas supply, food industry, automotive and engine building industry.	General purpose, potable water supply, steam supply, gas supply, food industry, heating systems.	General purpose, gas supply, petrochemical industry, food industry, shipbuilding, refrigeration and cooling.	Steam supply, gas supply, chemical industry, petrochemical industry, paper and cellulose industries, high temp. applications.	Steam supply, paper and cellulose industries, power plant refrigeration and cooling, heating systems, high temp. applications.	
Approvals	Please inquire.	Germanischer Lloyd.	DIN-DWG DIN 3555-4, DVGW VP 401, DVGW VP 402, TA-Luft 1001, 1046, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 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2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 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	GRAFILIT®	SF	SL	SP	EM
Composition	Expanded natural graphite	Expanded natural graphite, stainless steel foil insert (AS 316, 0.5 mm)	Expanded natural graphite, tapered stainless steel sheet insert (AS 316, 0.1 mm)	Expanded natural graphite, tapered stainless steel sheet insert (AS 316, 0.1 mm)	Expanded natural graphite, expanded stainless steel sheet insert (AS 316, 0.1 mm)
Colour	Black	Black	Black	Black	Black
Properties	This material has excellent chemical and thermal resistance, combined with high compressibility.	Material designed for high operating pressures with excellent chemical and thermal resistance.	Material designed for high operating and low blow-out safety, even in applications with cycling loads. Makes this material superior.	Material with excellent media resistance and blow-out safety, even in applications with cycling loads. Makes this material superior.	Material with excellent media resistance and blow-out safety, even in applications with cycling loads. Makes this material superior.
Appropriate industries	Water supply, chemical industry, petrochemical industry, refrigeration and cooling, high temp. applications.	Water supply, steam supply, chemical industry, power plants, heating systems, high temp. applications.	General purpose, steam supply, gas supply, chemical industry, petrochemical industry, heating systems, high temp. applications.	Steam supply, gas supply, chemical industry, petrochemical industry, heating systems, high temp. applications.	Steam supply, gas supply, chemical industry, petrochemical industry, heating systems, high temp. applications.
Approvals	DN-DON DN 2030-2, DN5W VP 43, BAM (Bayern, Germanischer Lloyd)	BAM (Bayern)	DN-DON DN 2030-2, DN5W VP 43, BAM (Bayern, Germanischer Lloyd)	DN-DON DN 2030-2, DN5W VP 43, BAM (Bayern, Germanischer Lloyd)	DN-DON DN 2030-2, DN5W VP 43, BAM (Bayern, Germanischer Lloyd)

TECHNICAL DATA Typical values for a thickness of 1.5 mm

Density	DN 2030-2	g/cm ³	1.9	1.3	1.5	1.4
Compressibility	ASTM F364	%	45	42	35	35
Recovery	ASTM F364	%	13	15	17	20
Stress resistance	DN 22913	MPa	49	49	49	49
Specific leak rate	DN 2030-2	ml/min	0.05	0.05	0.05	0.05
Leachable chloride content	FS4-NMG 203	ppm	20	20	20	20
Leachable fluoride content	FS4-NMG 203	ppm	20	20	20	20
Ash content of graphite	DN 51901	%	<1	<1	<1	<1
Compression modulus	DN 2030-2					
At room temperature: E ₃₀₀	%		41	38	34	32
At elevated temperature: E ₃₀₀	%		6.0	1.2	1.2	2.5
Percentage creep relaxation	DN 2030-2					
At room temperature: E ₃₀₀	%		5.8	4.3	4.2	4.5
At elevated temperature: E ₃₀₀	%		4.8	3.8	3.3	3.5
Operating conditions						
Minimum temperature	°C/°F		-200/-328	-200/-328	-200/-328	-200/-328
Continuous temperature						
-oxidizing atmosphere	°C/°F		300/572	320/602	350/652	350/652
-reducing or inert atmosphere	°C/°F		700/1292	700/1292	700/1292	700/1292
Pressures						
-demanding gases	bar/psi		30/435	40/570	40/570	80/1140
-steam, gasses	bar/psi		40/570	100/1450	130/1885	130/1885
-liquids	bar/psi		100/1450	140/2030	160/2320	160/2320

		F	P
Composition	Mica flakes (phlogopite), silicon resin.	Mica flakes (phlogopite), silicon resin, tapered stainless steel sheet insert (AS 316, 0.1 mm)	Mica flakes (phlogopite), silicon resin, tapered stainless steel sheet insert (AS 316, 0.1 mm)
Colour	Yellowish-brown to green	Yellowish-brown to green	Yellowish-brown to green
Properties	Material has excellent thermal and chemical resistance. It has good electrical insulation and low thermal conductivity properties.	Material has excellent thermal resistance, good chemical and mechanical resistance. It has good electrical insulation and low thermal conductivity properties.	Material has excellent thermal resistance, good chemical and mechanical resistance. It has good electrical insulation and low thermal conductivity properties.
Appropriate industries	Chemical industry, petrochemical industry, automotive and engine building industry, heating systems, high temp. applications.	Chemical industry, petrochemical industry, automotive and engine building industry, heating systems, high temp. applications.	Chemical industry, petrochemical industry, automotive and engine building industry, heating systems, high temp. applications.

Size limit 1500 x 1200
Thickness (mm) 0.5 - 2.0 (0.1 - 1.5) | 2.0 (1.3 - 3.0) (F)

TECHNICAL DATA Typical values for a thickness of 2 mm

Density	DN 2030-2	g/cm ³	1.9	2.0
Compressibility	ASTM F364	%	20	20
Recovery	ASTM F364	%	35	35
Stress on ignition	DN 22913	MPa	-8	-5
Stress resistance	DN 52913	MPa	38	42
50 MPa, 16 h, 200 °C	°C/°F		950/1742	950/1742

	DONIFLEX®	G-LD	G-MD	G-EM
Composition	Aramid fibres, natural graphite, inorganic fibres, NBR binder	Aramid fibres, natural graphite, inorganic fibres, NBR binder	Aramid fibres, natural graphite, inorganic fibres, NBR binder	Aramid fibres, natural graphite, inorganic fibres, NBR binder
Colour	Grey	Grey	Grey	Grey
Properties	Material has very good chemical and thermal resistance. Material's high compressibility enables very good adaptability to uneven flange surfaces.	Material has very good chemical, thermal and mechanical properties. It has very good resistance to steam.	Material has very good chemical, thermal and mechanical properties. It has very good resistance to steam.	This material is distinguished by a material's mechanical resistance in particular to surface pressures and blowouts in combination with inherent sealing characteristics.
Appropriate industries	General purpose, chemical industry, petrochemical industry, paper and cellulose industries, automotive and engine building industry, high temp. applications.	Petrochemical industry, paper and cellulose industries, automotive and engine building industry, high temp. applications.	Petrochemical industry, paper and cellulose industries, automotive and engine building industry, high temp. applications.	Steam supply, petrochemical industry, pharmaceutical and engine building industry, power plant, heating systems, high temp. applications.
Approvals	TS-Lut (VCI 2440)	Fluor-Insure	Fluor-Insure	Fluor-Insure

TECHNICAL DATA Typical values for a thickness of:

		2 mm	1 mm	2 mm
Density	DN 2030-2	g/cm ³	1.8	1.7
Compressibility	ASTM F364	%	35	22
Recovery	ASTM F364	%	17	30
Tensile strength	ASTM F364	MPa	4.5	15
Stress resistance	DN 52913	MPa	40	40
To MPa, 16 h, 175 °C	MPa	0.0	0.0	0.0
To MPa, 16 h, 200 °C	MPa	0.0	0.0	0.0
Specific leak rate	DN 2030-2	ml/min	0.0	0.0
Thickness increase	ASTM F364	%	3	8
At room temperature: E ₃₀₀	%	2	5	8
At elevated temperature: E ₃₀₀	%	2	5	8
Weight increase	ASTM F364	%	30	18
At room temperature: E ₃₀₀	%	20	17	18
At elevated temperature: E ₃₀₀	%	25	17	18
Compression modulus	DN 2030-2			
At room temperature: E ₃₀₀	%	36	17	7
At elevated temperature: E ₃₀₀	%	6	5	7
Percentage creep relaxation	DN 2030-2			
At room temperature: E ₃₀₀	%	3.0	2.8	3.5
At elevated temperature: E ₃₀₀	%	0.5	0.2	0.7
Creep deformation				
Change in thickness at 20 °C, 50 MPa	%	33	18	18
Change in thickness at 200 °C, 50 MPa	%	8	8	8
Change in thickness at 400 °C, 50 MPa	%	17	11	10

	DONIFLON®	900E	2010	2020	2030
Size limit	1500 x 1500				
Thickness limit	0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 9000E 1.5 2.0 3.0 4.0 5.0 6.0 9000E				
Composition	PTFE	PTFE, hollow glass microbeads	PTFE, silica	PTFE	PTFE, boron sulfate
Colour	White	Blue	Pink	White	White
Properties	Expanded PTFE, material suitable for nearly all media. Not suitable for oxidizing acids, alkalis, metals and fluorine compounds. Its excellent compressibility enables very good adaptability to pressure sensitive connections like ceramic, plastic or glass flange.	Material suitable for nearly all media. Not suitable for oxidizing acids, concentrated inorganic acids. Not suitable for molten alkali metals and fluorine compounds.	Material suitable for nearly all media, especially recommended for concentrated inorganic acids. Not suitable for molten alkali metals and fluorine compounds.	Material suitable for nearly all media, especially recommended for concentrated inorganic acids. Not suitable for molten alkali metals and fluorine compounds.	Material suitable for nearly all media, especially recommended for concentrated inorganic acids. Not suitable for molten alkali metals and fluorine compounds.
Appropriate industries	Steam supply, chemical industry, petrochemical industry, pharmaceutical industry, food industry, heating systems.	Gen. supply, chemical industry, petrochemical industry, pharmaceutical industry, food industry, heating systems.	Gen. supply, chemical industry, petrochemical industry, pharmaceutical industry, food industry, heating systems.	Gen. supply, chemical industry, petrochemical industry, pharmaceutical industry, food industry, heating systems.	Gen. supply, chemical industry, petrochemical industry, pharmaceutical industry, food industry, heating systems.
Approvals	Please inquire.	Please inquire.	Please inquire.	Please inquire.	Please inquire.

TECHNICAL DATA Typical values for a thickness of 2 mm

Density	DN 2030-2	g/cm ³	1.8	1.5	2.1	3.0
Compressibility	ASTM F364	%	15	30	7	7
Recovery	ASTM F364	%	32	40	45	45
Tensile strength	ASTM F364	MPa	32	14	14	50
Stress resistance	DN 52913	MPa	16	14	13	13
30 MPa, 16 h, 150 °C	MPa	0.02	0.02	0.02	0.02	
Specific leak rate	DN 500-E	ml/min	0.14	0.14	0.14	0.14
pH range			0-14	0-14	0-14	0-14
Operating conditions						
Minimum temperature	°C/°F		-200/-328	-200/-328	-200/-328	-200/-328
Maximum temperature	°C/°F		260/500	260/500	260/500	260/500
Pressure	bar/psi		100/1450	60/870	100/1450	100/1450



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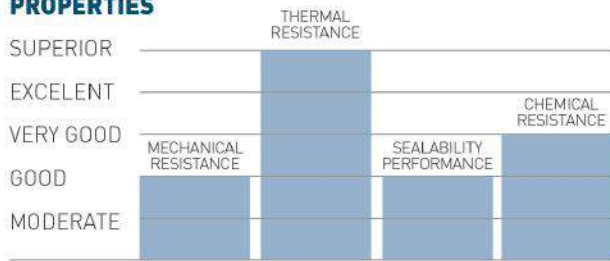
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QUALITY AND EXPERIENCE YOU CAN RELY ON



TESNIT® BA-55 is specifically manufactured for heating systems that utilise steam or mineral oils, however it is also suitable for other applications. TASNIT® BA-55 has very good thermal and chemical resistance.

PROPERTIES



APPROPRIATE INDUSTRIES & APPLICATIONS

- GENERAL PURPOSE
- WATER SUPPLY
- POTABLE WATER SUPPLY
- STEAM SUPPLY
- GAS SUPPLY
- FOOD INDUSTRY
- SHIPBUILDING
- HEATING SYSTEMS

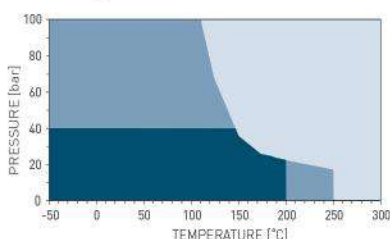
Composition	Engineered bio-soluble mineral fibres, aramid fibres, inorganic fillers, NBR binder. Optional steel wire mesh insert on request.
Colour	Dark green
Approvals	DIN-DVGW DIN 3535-6, SVGW DIN 3535-6, DVGW VP 401, DVGW VP 401 (5 bar), DVGW KTW, DVGW W270, BAM (Oxygen), EC 1935/2004

TECHNICAL DATA Typical values for a thickness of 2 mm

Density	DIN 28090-2	g/cm ³	1.8
Compressibility	ASTM F36J	%	7
Recovery	ASTM F36J	%	55
Tensile strength	ASTM F152	MPa	7
Stress resistance	DIN 52913		
16 h, 50 MPa, 175 °C		MPa	35
16 h, 50 MPa, 300 °C		MPa	30
Specific leak rate	DIN 3535-6	mg/(s·m)	0.06
Thickness increase	ASTM F146		
Oil IRM 903, 5 h, 150 °C		%	8
ASTM Fuel B, 5 h, 23 °C		%	10
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{KSW}		%	7.6
At elevated temperature: $\epsilon_{WSW/200\text{ °C}}$		%	11.4
Percentage creep relaxation	DIN 28090-2		
At room temperature: ϵ_{KRW}		%	3.2
At elevated temperature: $\epsilon_{WRW/200\text{ °C}}$		%	0.8
Max. operating conditions			
Peak temperature		°C/°F	350/662
Continuous temperature		°C/°F	270/518
- with steam		°C/°F	230/446
Pressure		bar/psi	100/1450

P-T DIAGRAM

EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2.0 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.

Surface finish

Surface finish is 4AS. Optional graphite or PTFE finish on request.

Dimensions of standard sheets

Sheet size (mm): 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses are available on request.

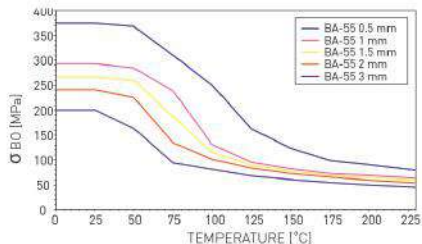
Tolerances

± 5 % on length and width
 On thickness up to 1.0 mm ± 0.1 mm
 On thickness above 1.0 mm ± 10 %

Acetamide	+	Dioxane	-	Oleic acid	+
Acetic acid, 10%	+	Diphtyl (Dowtherm A)	+	Oleum (Sulfuric acid, fuming)	-
Acetic acid, 100% (Glacial)	-	Esters	?	Oxalic acid	?
Acetone	?	Ethane (gas)	+	Oxygen (gas)	-
Acetonitrile	-	Ethers	?	Palmitic acid	+
Acetylene (gas)	+	Ethyl acetate	?	Paraffin oil	+
Acid chlorides	-	Ethyl alcohol (Ethanol)	+	Pentane	+
Acrylic acid	?	Ethyl cellulose	?	Perchloroethylene	-
Acrylonitrile	-	Ethyl chloride (gas)	-	Petroleum (Crude oil)	+
Adipic acid	+	Ethylene (gas)	+	Phenol (Carbolic acid)	-
Air (gas)	+	Ethylene glycol	+	Phosphoric acid, 40%	?
Alcohols	+	Formaldehyde (Formalin)	?	Phosphoric acid, 85%	-
Aldehydes	?	Formamide	?	Phthalic acid	+
Alum	+	Formic acid, 10%	+	Potassium acetate	+
Aluminium acetate	+	Formic acid, 85%	?	Potassium bicarbonate	+
Aluminium chlorate	?	Formic acid, 100%	-	Potassium carbonate	+
Aluminium chloride	?	Freon-12 [R-12]	+	Potassium chloride	+
Aluminium sulfate	?	Freon-134a [R-134a]	+	Potassium cyanide	+
Amines	-	Freon-22 [R-22]	?	Potassium dichromate	?
Ammonia (gas)	?	Fruit juices	+	Potassium hydroxide	?
Ammonium bicarbonate	+	Fuel oil	+	Potassium iodide	+
Ammonium chloride	+	Gasoline	+	Potassium nitrate	+
Ammonium hydroxide	+	Gelatin	+	Potassium permanganate	?
Amyl acetate	?	Glycerine (Glycerol)	+	Propane (gas)	+
Anhydrides	?	Glycols	+	Propylene (gas)	+
Aniline	-	Helium (gas)	+	Pyridine	-
Anisole	?	Heptane	+	Salicylic acid	?
Argon (gas)	+	Hydraulic oil (Glycol based)	+	Seawater/brine	+
Asphalt	+	Hydraulic oil (Mineral type)	+	Silicones (oil/grease)	+
Barium chloride	+	Hydraulic oil (Phosphate ester based)	?	Soaps	+
Benzaldehyde	-	Hydrazine	-	Sodium aluminate	+
Benzene	+	Hydrocarbons	+	Sodium bicarbonate	+
Benzoic acid	?	Hydrochloric acid, 10%	?	Sodium bisulfite	+
Bio-diesel	+	Hydrochloric acid, 37%	-	Sodium carbonate	+
Bio-ethanol	+	Hydrofluoric acid, 10%	-	Sodium chloride	+
Black liquor	?	Hydrofluoric acid, 48%	-	Sodium cyanide	+
Borax	+	Hydrogen (gas)	+	Sodium hydroxide	?
Boric acid	+	Iron sulfate	+	Sodium hypochlorite (Bleach)	?
Butadiene (gas)	+	Isobutane (gas)	+	Sodium silicate (Water glass)	+
Butane (gas)	+	Isooctane	+	Sodium sulfate	+
Butyl alcohol (Butanol)	+	Isoprene	+	Sodium sulfide	+
Butyric acid	+	Isopropyl alcohol (Isopropanol)	+	Starch	+
Calcium chloride	+	Kerosene	+	Steam	+
Calcium hydroxide	+	Ketones	?	Stearic acid	+
Carbon dioxide (gas)	+	Lactic acid	?	Styrene	?
Carbon monoxide (gas)	+	Lead acetate	+	Sugars	+
Cellose	?	Lead arsenate	+	Sulfur	?
Chlorine (gas)	-	Magnesium sulfate	+	Sulfur dioxide (gas)	?
Chlorine (in water)	-	Maleic acid	?	Sulfuric acid, 20%	-
Chlorobenzene	?	Malic acid	?	Sulfuric acid, 98%	-
Chloroform	-	Methane (gas)	+	Sulfuryl chloride	-
Chloroprene	?	Methyl alcohol (Methanol)	+	Tar	+
Chlorosilanes	-	Methyl chloride (gas)	?	Tartaric acid	?
Chromic acid	-	Methylene dichloride	?	Tetrahydrofuran (THF)	-
Citric acid	?	Methyl ethyl ketone (MEK)	?	Titanium tetrachloride	-
Copper acetate	+	N-Methyl-pyrrolidone (NMP)	?	Toluene	+
Copper sulfate	+	Milk	+	2,4-Toluenediisocyanate	?
Creosote	?	Mineral oil (ASTM no.1)	+	Transformer oil (Mineral type)	+
Cresols (Cresylic acid)	-	Motor oil	+	Trichloroethylene	-
Cyclohexane	+	Naphtha	+	Vinegar	+
Cyclohexanol	+	Nitric acid, 10%	-	Vinyl chloride (gas)	-
Cyclohexanone	?	Nitric acid, 65%	-	Vinylidene chloride	-
Decalin	+	Nitrobenzene	-	Water	+
Dextrin	+	Nitrogen (gas)	+	White spirits	+
Dibenzyl ether	?	Nitrous gases (NOx)	?	Xylenes	+
Dibutyl phthalate	?	Octane	+	Xylenol	-
Dimethylacetamide (DMA)	?	Oils (Essential)	+	Zinc sulfate	+
Dimethylformamide (DMF)	?	Oils (Vegetable)	+		

σ_{BO} DIAGRAM

DIN 28090-1



σ_{BO} diagrams represents σ_{BO} values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the compressed gasket area in-service without destructing damaging the gasket material.

P-T diagrams indicate the maximum allowed combination of internal pressure and service temperature which can be applied simultaneously for a given gasket depending on its material type, thickness, size and tightness class. Given the variety of gasket applications and service conditions, these values should only be regarded as guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

CHEMICAL RESISTANCE CHART

The recommendations made here are intended to be a guideline for the selection of the suitable gasket quality. Because the function and durability of the products depend upon a number of factors, the data may not be used to support any warranty claims.

- + Recommended
- ? Recommendation depends on operating conditions
- Not recommended



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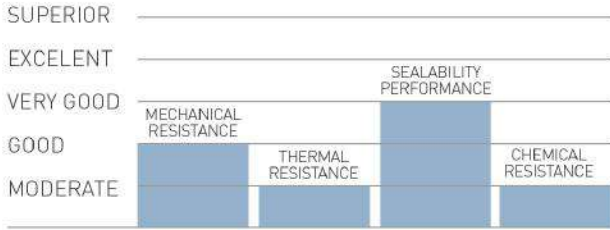
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Date of issue: 01.06.2015 / TDS-BA55-05-2015



TESNIT® BA-202 is suitable for non-demanding applications in particular the water supply industry. As such, TASNIT® BA-202 has been designed with good mechanical and sealing properties.

PROPERTIES



APPROPRIATE INDUSTRIES & APPLICATIONS

- GENERAL PURPOSE
- WATER SUPPLY
- SHIPBUILDING

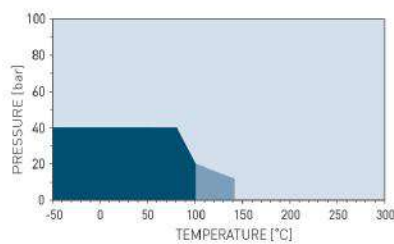
Composition	Cellulose fibres, inorganic fillers, NBR binder. Optional steel wire mesh insert on request.
Colour	Pink / Red
Approvals	Please inquire.

TECHNICAL DATA Typical values for a thickness of 2 mm

Density	DIN 28090-2	g/cm ³	1.8
Compressibility	ASTM F36J	%	9
Recovery	ASTM F36J	%	60
Tensile strength	ASTM F152	MPa	8
Stress resistance	DIN 52913		
16 h, 50 MPa, 175 °C		MPa	20
16 h, 50 MPa, 300 °C		MPa	/
Specific leak rate	DIN 3535-6	mg/(s·m)	0.04
Thickness increase	ASTM F146		
Oil IRM 903, 5 h, 150 °C		%	10
ASTM Fuel B, 5 h, 23 °C		%	10
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{KSW}		%	/
At elevated temperature: $\epsilon_{WSW/200\text{ °C}}$		%	/
Percentage creep relaxation	DIN 28090-2		
At room temperature: ϵ_{KRW}		%	/
At elevated temperature: $\epsilon_{WRW/200\text{ °C}}$		%	/
Max. operating conditions			
Peak temperature		°C/°F	180/356
Continuous temperature		°C/°F	140/284
- with steam		°C/°F	120/248
Pressure		bar/psi	40/580

P-T DIAGRAM

EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2.0 mm



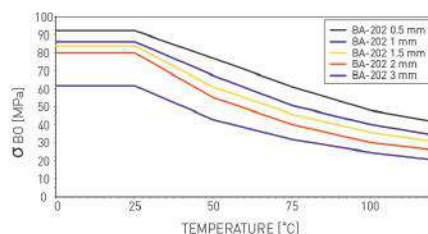
- General suitability - Under common installation practices and chemical compatibility.
- Conditional suitability - Appropriate measures ensure maximum performance for joint design and gasket installation. Technical consultation is recommended.
- Limited suitability - Technical consultation is mandatory.

Surface finish	Surface finish is 2AS. Optional graphite or PTFE finish on request.
Dimensions of standard sheets	Sheet size (mm): 1500 x 1500 3000 x 1500 4500 x 1500 Thickness (mm): 0.5 1.0 1.5 2.0 3.0 Other dimensions and thicknesses are available on request.
Tolerances	± 5 % on length and width On thickness up to 1.0 mm ± 0.1 mm On thickness above 1.0 mm ± 10 %

Acetamide	+	Dioxane	-	Oleic acid	+
Acetic acid, 10%	+	Diphyl (Dowtherm A)	+	Oleum (Sulfuric acid, fuming)	-
Acetic acid, 100% (Glacial)	?	Esters	?	Oxalic acid	?
Acetone	?	Ethane (gas)	+	Oxygen (gas)	-
Acetonitrile	-	Ethers	?	Palmitic acid	+
Acetylene (gas)	+	Ethyl acetate	?	Paraffin oil	+
Acid chlorides	-	Ethyl alcohol (Ethanol)	+	Pentane	+
Acrylic acid	-	Ethyl cellulose	?	Perchloroethylene	-
Acrylonitrile	-	Ethyl chloride (gas)	-	Petroleum (Crude oil)	+
Adipic acid	+	Ethylene (gas)	+	Phenol (Carbolic acid)	-
Air (gas)	+	Ethylene glycol	+	Phosphoric acid, 40%	-
Alcohols	+	Formaldehyde (Formalin)	?	Phosphoric acid, 85%	-
Aldehydes	?	Formamide	?	Phthalic acid	+
Alum	+	Formic acid, 10%	?	Potassium acetate	+
Aluminium acetate	?	Formic acid, 85%	-	Potassium bicarbonate	+
Aluminium chlorate	?	Formic acid, 100%	-	Potassium carbonate	+
Aluminium chloride	-	Freon-12 (R-12)	+	Potassium chloride	+
Aluminium sulfate	-	Freon-134a (R-134a)	+	Potassium cyanide	+
Amines	-	Freon-22 (R-22)	?	Potassium dichromate	-
Ammonia (gas)	-	Fruit juices	+	Potassium hydroxide	-
Ammonium bicarbonate	+	Fuel oil	+	Potassium iodide	+
Ammonium chloride	+	Gasoline	+	Potassium nitrate	+
Ammonium hydroxide	?	Gelatin	+	Potassium permanganate	-
Amyl acetate	?	Glycerine (Glycerol)	+	Propane (gas)	+
Anhydrides	-	Glycols	-	Propylene (gas)	+
Aniline	-	Helium (gas)	+	Pyridine	-
Anisole	?	Heptane	+	Salicylic acid	?
Argon (gas)	+	Hydraulic oil (Glycol based)	+	Seawater/brine	+
Asphalt	+	Hydraulic oil (Mineral type)	+	Silicones (oil/grease)	+
Barium chloride	+	Hydraulic oil (Phosphate ester based)	?	Soaps	+
Benzaldehyde	-	Hydrazine	-	Sodium aluminate	?
Benzene	+	Hydrocarbons	+	Sodium bicarbonate	+
Benzoic acid	?	Hydrochloric acid, 10%	-	Sodium bisulfite	?
Bio-diesel	+	Hydrochloric acid, 37%	-	Sodium carbonate	+
Bio-ethanol	+	Hydrofluoric acid, 10%	-	Sodium chloride	+
Black liquor	?	Hydrofluoric acid, 48%	-	Sodium cyanide	+
Borax	+	Hydrogen (gas)	+	Sodium hydroxide	-
Boric acid	+	Iron sulfate	+	Sodium hypochlorite (Bleach)	-
Butadiene (gas)	+	Isobutane (gas)	+	Sodium silicate (Water glass)	+
Butane (gas)	+	Isooctane	+	Sodium sulfate	+
Butyl alcohol (Butanol)	+	Isoprene	+	Sodium sulfide	-
Butyric acid	?	Isopropyl alcohol (Isopropanol)	+	Starch	+
Calcium chloride	+	Kerosene	+	Steam	?
Calcium hydroxide	+	Ketones	?	Stearic acid	+
Carbon dioxide (gas)	+	Lactic acid	?	Styrene	?
Carbon monoxide (gas)	+	Lead acetate	?	Sugars	+
Cellulosolve	?	Lead arsenate	+	Sulfur	?
Chlorine (gas)	-	Magnesium sulfate	+	Sulfur dioxide (gas)	?
Chlorine (in water)	-	Maleic acid	?	Sulfuric acid, 20%	-
Chlorobenzene	?	Malic acid	?	Sulfuric acid, 98%	-
Chloroform	-	Methane (gas)	+	Sulfuryl chloride	-
Chloroprene	?	Methyl alcohol (Methanol)	+	Tar	+
Chlorosilanes	-	Methyl chloride (gas)	?	Tartaric acid	?
Chromic acid	-	Methylene dichloride	?	Tetrahydrofuran (THF)	-
Citric acid	?	Methyl ethyl ketone (MEK)	?	Titanium tetrachloride	-
Copper acetate	+	N-Methyl-pyrrolidone (NMP)	?	Toluene	+
Copper sulfate	+	Milk	+	2,4-Toluenediisocyanate	?
Cresosote	?	Mineral oil (ASTM no.1)	+	Transformer oil (Mineral type)	+
Cresols (Cresylic acid)	-	Motor oil	+	Trichloroethylene	-
Cyclohexane	+	Naphtha	+	Vinegar	+
Cyclohexanol	+	Nitric acid, 10%	-	Vinyl chloride (gas)	+
Cyclohexanone	?	Nitric acid, 65%	-	Vinylidene chloride	-
Decalin	+	Nitrobenzene	-	Water	+
Dextrin	+	Nitrogen (gas)	+	White spirits	+
Dibenzyl ether	?	Nitrous gases (NOx)	?	Xylenes	+
Dibutyl phthalate	?	Octane	+	Xylenol	-
Dimethylacetamide (DMA)	?	Oils (Essential)	+	Zinc sulfate	+
Dimethylformamide (DMF)	?	Oils (Vegetable)	+		

σ_{BO} DIAGRAM

DIN 28090-1



σ_{BO} diagrams represents σ_{BO} values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the compressed gasket area in-service without destructing damaging the gasket material.

P-T diagrams indicate the maximum allowed combination of internal pressure and service temperature which can be applied simultaneously for a given gasket depending on its material type, thickness, size and tightness class. Given the variety of gasket applications and service conditions, these values should only be regarded as guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

CHEMICAL RESISTANCE CHART

The recommendations made here are intended to be a guideline for the selection of the suitable gasket quality. Because the function and durability of the products depend upon a number of factors, the data may not be used to support any warranty claims.

- + Recommended
- ? Recommendation depends on operating conditions
- Not recommended



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