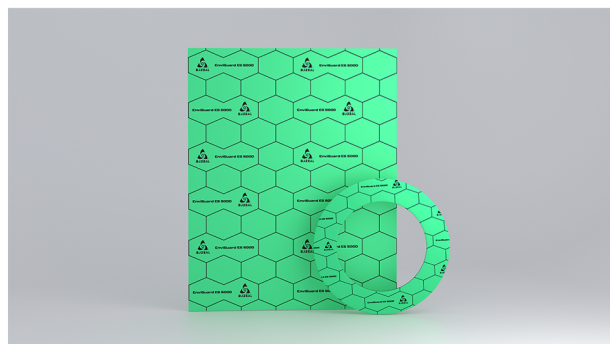
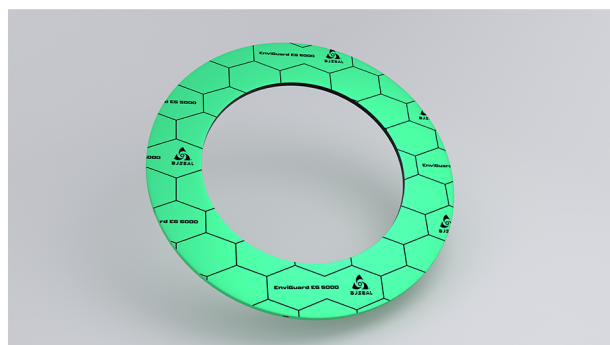
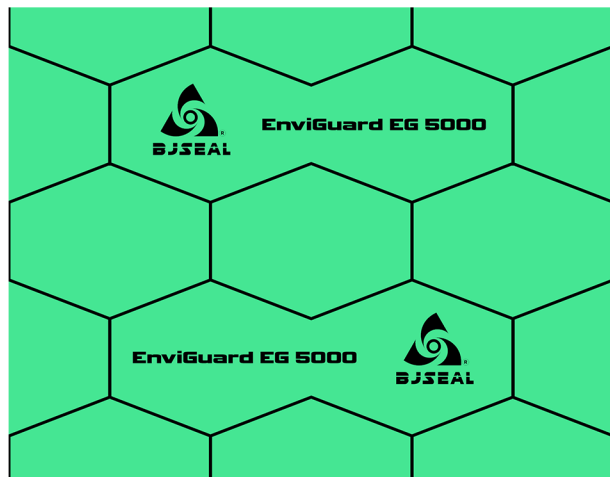


TECHNICAL DATA SHEET

BJSEAL-Enviguard EG 5000



Fluid Sealing Solutions



The BJSEAL-Enviguard EG 5000 gasket is a versatile and dependable sealing solution, designed to perform efficiently in low-pressure, low-stress environments. Its adaptability across a wide range of applications—including steam, water, oils, fuels, and inert gases—makes it an essential component for industries such as HVAC, water treatment, automotive, and more. With a focus on reliability, cost-effectiveness, and long-lasting performance, the EG 5000 gasket stands out as a practical choice for industries seeking high-quality sealing solutions for diverse operational needs.

Have an application engineering questions or need expert advice?

Our team at BJSEAL is ready to assist you! Whether you need support with a specific application or have technical inquiries, we're here to provide tailored solutions that meet your needs. Don't hesitate to reach out to us at gasket@bjseal.com we'll be delighted to help you find the right answers.

The BJSEAL-Enviguard EG 5000 is a general-purpose non asbestos gasket, designed for use across various industrial applications. It is particularly well-suited for low-pressure steam, water, oils, fuels, and inert gases, offering versatile sealing performance in multiple industries. The EG 5000 is engineered for efficient operation under low-stress conditions, ensuring both reliability and long-lasting performance. The BJSEAL-Enviguard EG 5000 is an excellent choice for industries seeking a dependable and cost-effective sealing solution in low-pressure, low-stress environments.

This gasket material combines organic fibers, mineral fibers, cellulose fibres and an NBR binder for strength, flexibility, and chemical resistance.

Key Features and Applications:

Features:

- **Versatile Sealing Material:** The EG 5000 is designed to provide reliable sealing across a wide range of applications, including steam, water, oils, fuels, and inert gases.
- **Low-Pressure Performance:** Optimized for low-pressure environments, the seal ensures effective sealing without compromising integrity or durability.
- **Engineered for Low-Stress Conditions:** Its flexibility and compressibility allow it to perform excellently under low bolt loads, making it ideal for applications where minimal stress is applied to the gasket.
- **Cost-Effective Solution:** Combining reliability with affordability, the EG 5000 provides an efficient sealing solution without high costs.

Applications:

- **Steam Systems:** Reliable sealing for low-pressure steam applications, including boilers, heat exchangers, and piping systems.
- **Water Systems:** Provides effective sealing in water handling systems, such as plumbing and HVAC systems.
- **Oil & Fuel Systems:** Suitable for a variety of oils and fuels, ideal for automotive, petrochemical, and industrial machinery.
- **Inert Gas Systems:** Excellent for sealing inert gases in industrial processes due to its chemical resistance.
- **General Industrial Use:** Versatile and dependable for a wide range of low-pressure, low-stress applications across multiple industries.

Sheet Sizes

- | | |
|------------------|------------------|
| • 1500 X 1500 mm | • 1500 X 2000 mm |
| • 1500 X 2250 mm | • 1300 X 3900 mm |
| • 1500 X 4500 mm | • 1270 X 1270 mm |
| • 1500 X 1000 mm | • 2100 X 3000 mm |
| • 1000 X 1000 mm | • 1500 X 3000 mm |
| • 1500 X 4000 mm | • 2000 X 3000 mm |

Thickness

- Metallic – 0.8 mm to 6 mm
- Non Metallic – 0.4 mm to 6 mm

Tolerance

- Length and width - $\pm 5\%$
- Thickness $\leq 1.0\text{mm}$ - $\pm 0.1\text{mm}$
- Thickness $\geq 1.0\text{mm}$ - $\pm 10\%$

Key Industries

- | | |
|--------------------------------|----------------------------|
| • HVAC Systems | • Automotive Industry |
| • Water Treatment Plants | • Food & Beverage Industry |
| • Oil & Fuel Handling | • Pulp and Paper Industry |
| • General Industrial Machinery | • Chemical Processing |

TECHNICAL DATA SHEET

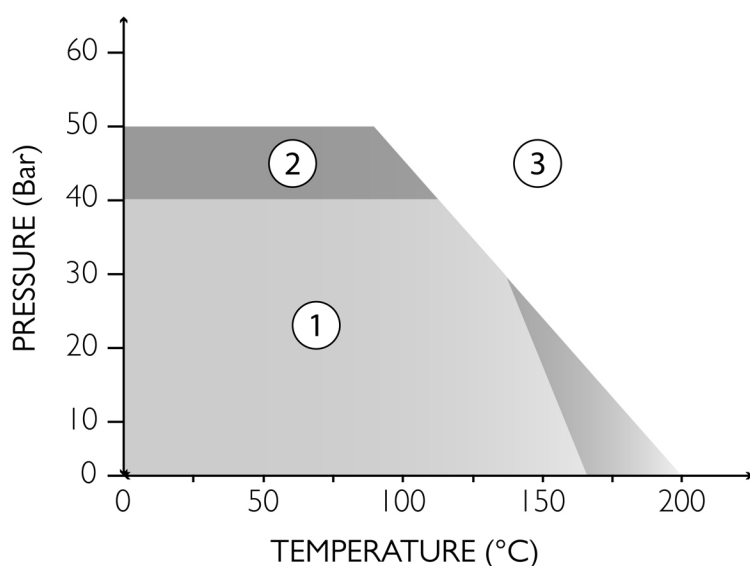
BJSEAL-Enviguard EG 5000

Technical Data

Physical Properties	Test method	Unit	Specific Value
Density	ASTM F 1315	g/cm ³	1.60 - 1.90
Compressibility	ASTM F 36 J	%	7.0 - 17.0
Recovery	ASTM F 36 J	%	≥ 40.0
Tensile Strength	ASTM F 152	N/mm ²	≥ 7.0
Stress Relaxation (16h 175° C)	DIN 52913	Mpa	≥ 15.0
Gas Permeability	BS 7531	ml/min	≤ 1.0
ASTM oil no.3 (5h, 150°C)	ASTM F 146		
Thickness Increase		%	≤ 15.0
Weight Increase		%	≤ 20.0
ASTM Fuel B (5h, 23°C)	ASTM F 146		
Thickness Increase		%	≤ 20.0
Weight Increase		%	≤ 20.0
Water (5h, 100°C)	ASTM F 146		
Thickness Increase		%	≤ 10.0
Weight Increase		%	≤ 15.0
Max. Peak Temperature		°C/°F	200/392
Max. Operating Temperature		°C/°F	165/329
Max. Operating Pressure		Bar/PSI	50/725
Colour			Green/Blue

The values given in the table refer to the gasket thickness 2.0mm
Customers can request different color options.

Pressure vs Temperature



Other Envi-Guard Options

EG 5005S - Approx 200°C/392°F @ 65 Bar/953 psi
EG 5010 - Approx 200°C/392°F @ 60 Bar/870 psi
EG 5015 - Approx 225°C/437°F @ 80 Bar/1160 psi
EG 5020 - Approx 250°C/662°F @ 100 Bar/1450 psi
EG 5020S - Approx 300°C/572°F @ 120 Bar/1740 psi
EG 5030S - Approx 300°C/572°F @ 120 Bar/1740 psi
EG 5035 - Approx 275°C/527°F @ 100 Bar/1450 psi
EG 5040 - Approx 200°C/392°F @ 60 Bar/870 psi
EG 5045 - Approx 350°C/662°F @ 140 Bar/2030 psi
EG 5050 - Approx 350°C/662°F @ 80Bar/1160 psi
EG 5055S - Approx 250°C/662°F @ 140 Bar/2030 psi

1. Suitable for chemical Compatibility
2. Suitable in some cases but check your application requirements with a technician team
3. Contact BJSEAL for applications with higher temperatures and pressures.

All recommendations and information contained in this data sheet are, to the best of our knowledge, accurate. Product specifications are intended as guidelines. Since service conditions are beyond our control, users must ensure that the products are suitable for their intended use. No guarantee or warranty is given or implied regarding the information or recommendations provided, nor that the use of the products will not infringe on the rights of third parties. We reserve the right to change product design and properties without prior notification.