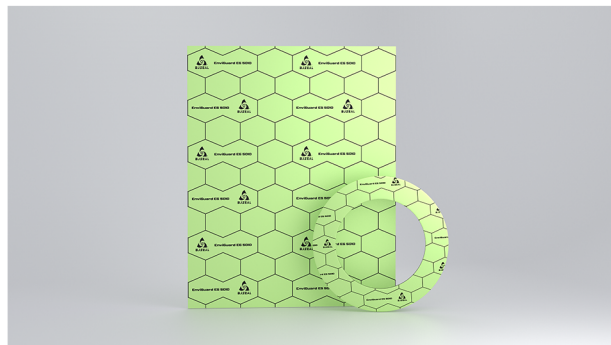
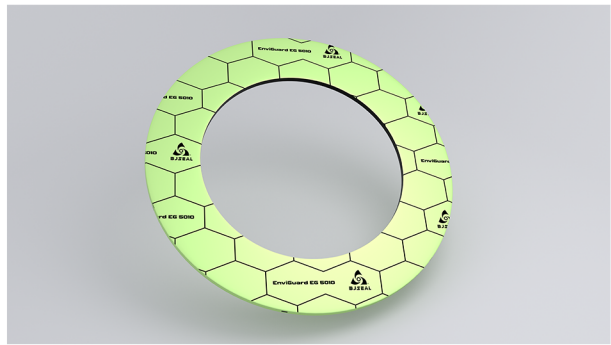
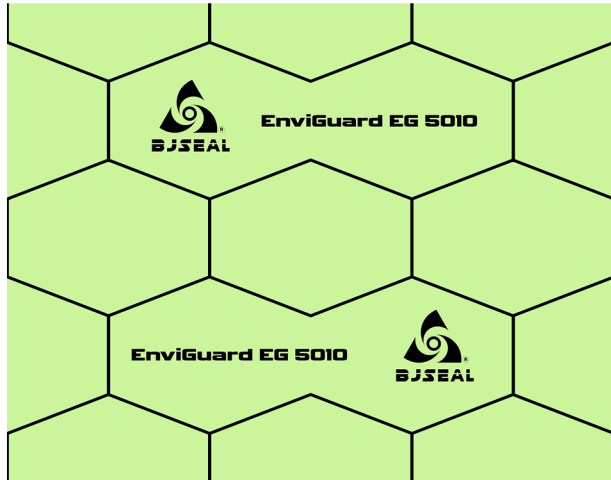


TECHNICAL DATA SHEET

BJSEAL-Enviguard EG 5010



The BJSEAL-Enviguard 5010 is a general-purpose gasket material designed for reliable sealing in various industrial applications. Composed of a blend of mineral and organic fibers with inorganic fillers, the gasket is bound together using a nitrile butadiene rubber (NBR) binder, providing excellent resistance to steam, water, oils, fuels, and inert gases. Engineered for low-pressure and low-stress conditions, the Enviguard 5010 offers dependable performance, making it an ideal choice for a wide range of sealing needs across multiple industries.

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 Material Composition:** Crafted from a combination of mineral fiber, organic fiber, and inorganic fillers, bound with NBR for enhanced chemical resistance and durability.
- **Low-Pressure Performance:** Designed for applications in low-pressure environments, ensuring effective sealing without compromising material integrity.
- **Engineered for Low-Stress Conditions:** Offers flexibility and compressibility, making it suitable for situations where bolt load and mechanical stress are minimal.
- **General-Purpose Grade:** Ideal for a wide variety of applications, providing reliable sealing for steam, water, oils, fuels, and inert gases.

Applications:

- **Steam Systems:** Suitable for low-pressure steam applications, such as in boilers and piping systems, ensuring dependable sealing.
- **Water Handling Systems:** Effective for use in plumbing and HVAC systems where water sealing is required.
- **Oil and Fuel Systems:** Provides reliable sealing in automotive, petrochemical, and industrial machinery exposed to oils and fuels.
- **Inert Gas Systems:** Ideal for sealing inert gases in industrial processes, thanks to its chemical resistance and durability.
- **General Industrial Use:** Versatile enough for a broad range of low-pressure and low-stress industrial sealing applications.

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

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.

Key Industries

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

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 $\geq 1.0\text{mm}$ - $\pm 10\%$

TECHNICAL DATA SHEET

BJSEAL-EnviGuard EG 5010



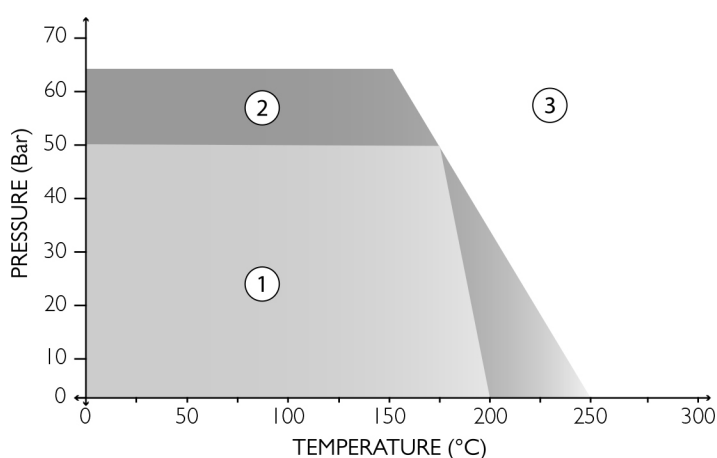
Fluid Sealing Solutions

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	≥ 9.0
Gas Permeability	BS 7531	ml/min	≤ 1.0
Stress Relaxation (16h 175° C)	DIN 52913	Mpa	≥ 18.0
ASTM oil no.3 (5h, 150°C)			
ASTM F 146			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
ASTM Fuel B (5h, 23°C)			
ASTM F 146			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
Water (5h, 100°C)			
ASTM F 146			
Thickness Increase		%	≤ 10
Weight Increase		%	≤ 15
Max. Peak Temperature		°C/°F	250/482
Max. Operating Temperature		°C/°F	200/392
Max. Operating Pressure		Bar/PSI	60/870
Colour		Green	

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 5005 - Approx 165°C/329°F @ 50 Bar/725 psi
EG 5005S - Approx 200°C/392°F @ 65 Bar/953 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.