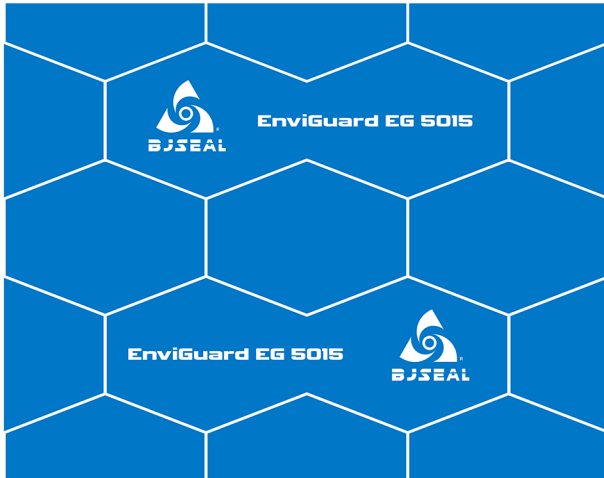


TECHNICAL DATA SHEET

BJSEAL-Enviguard EG 5015



Fluid Sealing Solutions



The BJSEAL-Enviguard EG 5015 is a robust gasket material designed for reliable sealing in medium-stress industrial applications. Composed of high-quality mineral fibers, aramid fibers, and inorganic fillers, the gasket is bound together with a nitrile butadiene rubber (NBR) binder, offering exceptional resistance to a wide range of substances. This material is suitable for use with oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, and most diluted acids and alkalis. Engineered for versatility and durability, the Enviguard EG 5015 is ideal for applications requiring dependable performance under medium-stress conditions, making it a preferred choice across multiple industries.

This gasket material is engineered from a blend of mineral fiber, aramid fiber, inorganic fillers, and an NBR binder, offering exceptional strength, flexibility, and chemical resistance.

Key Features and Applications:

Features:

- **Advanced Material Composition:** A blend of mineral fiber, aramid fiber, and inorganic fillers, reinforced with an NBR binder for superior chemical resistance and thermal stability.
- **Medium-Stress Performance:** Designed to perform effectively in medium-stress environments, ensuring reliable sealing even under demanding conditions.
- **Chemical Versatility:** Suitable for a wide range of substances, including oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, and most diluted acids and alkalis.
- **Durable and Reliable:** Engineered to provide long-lasting performance, making it a cost-effective solution for various industrial sealing needs.

Applications:

- **Oil and Fuel Systems:** Ideal for sealing in environments exposed to oils, fuels, lubricants, and hydrocarbons, commonly found in automotive, petrochemical, and industrial machinery.
- **Chemical Processing:** Suitable for systems involving alcohols, gases, and most diluted acids and alkalis, providing reliable sealing in chemical processing applications.
- **Steam and Water Systems:** Effective in sealing steam and water in industrial boilers, heat exchangers, and piping systems.
- **Cooling Systems:** Excellent for use with cooling liquids, ensuring dependable performance in refrigeration and cooling systems.
- **General Industrial Use:** Versatile enough to handle a broad range of medium-stress industrial applications requiring robust sealing solutions.

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

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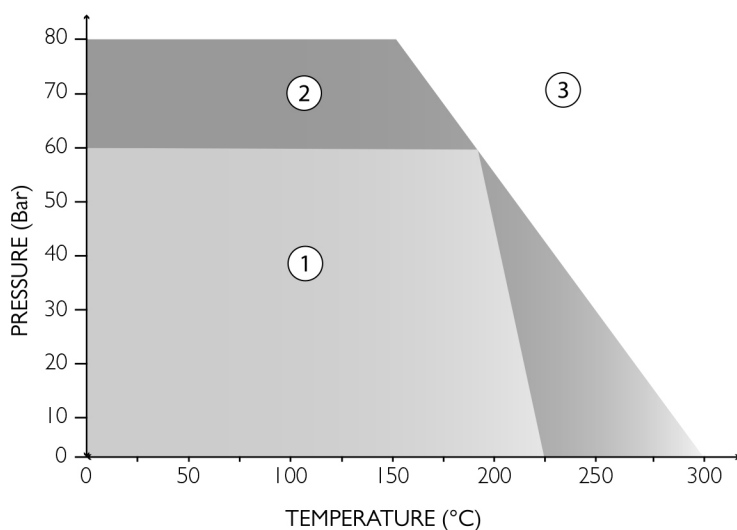
Fluid Sealing Solutions

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	%	≥ 50.0
Tensile Strength	ASTM F 152	N/mm ²	≥ 9.50
Gas Permeability	BS 7531	ml/min	≤ 1.0
Stress Relaxation (16h 175° C)	DIN 52913	Mpa	≥ 22.0
ASTM oil no.3 (5h, 150°C)	ASTM F 146		
Thickness Increase		%	≤ 10.0
Weight Increase		%	≤ 15.0
ASTM Fuel B (5h, 23°C)	ASTM F 146		
Thickness Increase		%	≤ 10.0
Weight Increase		%	≤ 15.0
Water (5h, 100°C)	ASTM F 146		
Thickness Increase		%	≤ 10.0
Weight Increase		%	≤ 10.0
Max. Peak Temperature		°C/°F	300/572
Max. Operating Temperature		°C/°F	225/437
Max. Operating Pressure		Bar/PSI	80/1160
Colour		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 5005 - Approx 165°C/329°F @ 50 Bar/725 psi
EG 5005S - Approx 200°C/392°F @ 65 Bar/953 psi
EG 5010 - Approx 200°C/392°F @ 60 Bar/870 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.