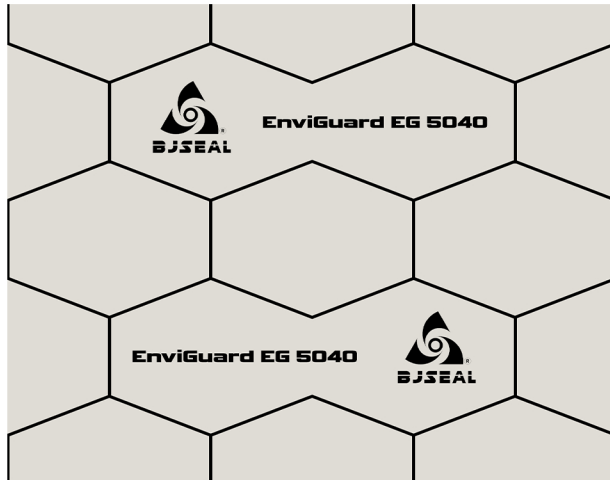


TECHNICAL DATA SHEET

BJSEAL-EnviGuard EG 5040



Fluid Sealing Solutions



The BJSEAL-EnviGuard 5040 is a premium quality acid jointing material engineered for aggressive industrial environments. This chemical-grade gasket material is composed of high-strength aramid fibers and inorganic fillers, bonded with a chlorosulfonated polyethylene (CSM) binder. The EnviGuard 5040 is specifically designed to provide exceptional resistance to a wide range of substances, including most acids, alkalies, oils, fuels, and refrigerants. Its robust composition ensures reliable performance and durability, making it an ideal choice for demanding applications where exposure to harsh chemicals and extreme conditions is common.

Gasket material composed of aramid fiber, inorganic fillers, and a CSM (chlorosulfonated polyethylene) binder, providing enhanced strength, chemical resistance, and durability in demanding sealing applications.

Key Features and Applications:

Features:

- **Superior Material Composition:** Crafted from aramid fiber and inorganic fillers, with a CSM binder for enhanced chemical resistance and durability.
- **Chemical-Grade Performance:** Designed to withstand aggressive environments, providing effective sealing in the presence of most acids, alkalies, oils, fuels, and refrigerants.
- **High-Strength and Durability:** The combination of aramid fiber and CSM binder ensures long-lasting performance, even under extreme conditions.
- **Versatile and Reliable:** Engineered to maintain integrity and provide consistent sealing in a variety of challenging industrial applications.

Applications:

- **Chemical Processing:** Ideal for sealing applications in chemical processing plants, where exposure to aggressive acids and alkalies is common.
- **Oil and Fuel Systems:** Suitable for use in environments involving oils, fuels, and hydrocarbons, providing reliable sealing in automotive, petrochemical, and industrial machinery.
- **Refrigeration Systems:** Effective in sealing refrigerants, making it an excellent choice for refrigeration and cooling systems operating under harsh conditions.
- **General Industrial Use:** Versatile enough to handle a wide range of aggressive industrial applications requiring robust and reliable sealing solutions.
- **Acid and Alkaline Environments:** Perfect for applications where the gasket material is exposed to strong acids and alkalies, ensuring dependable performance and longevity.

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

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.

TECHNICAL DATA SHEET

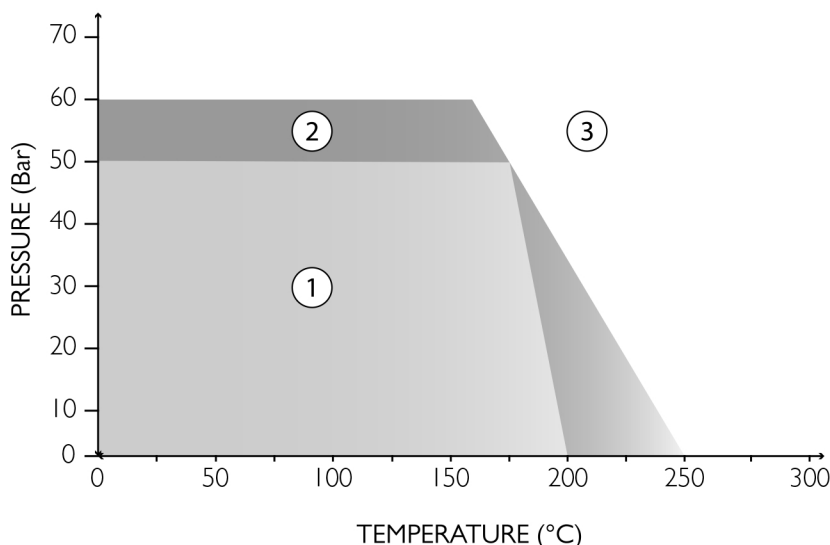
BJSEAL-Enviguard EG 5040

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	%	-
Gas Permeability	BS 7531	ml/min	-
Stress Relaxation (16h 300° C)	DIN 52913	Mpa	≥ 20.0
Tensile Strength	ASTM F 152	N/mm ²	≥ 10.5
ASTM oil no.3 (5h, 150°C)	ASTM F 146		
Thickness Increase		%	-
Weight Increase		%	-
ASTM Fuel B (5h, 23°C)	ASTM F 146		
Thickness Increase		%	-
Weight Increase		%	-
Water (5h, 100°C)	ASTM F 146		
Thickness Increase		%	-
Weight Increase		%	-
Thickness Increase			
Nitric Acid (40%)		%	≤ 15.0
Sulphuric Acid (96%)		%	≤ 15.0
Sulphuric Acid (65%)		%	≤ 15.0
Max. Peak Temperature		°C/°F	250/482
Max. Operating Temperature		°C/°F	200/392
Max. Operating Pressure		Bar/PSI	60/870
Colour		White	

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

Pressure vs Temperature



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.

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 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 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

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.