



Egraflex SPG

FLEXIBLE GRAPHITE

DESCRIPTION

Egraflex SPG is an adhesive-free graphite gasket sheet consisting of flexible graphite foil reinforced by a stainless steel (316L) tanged sheet.

The tanged steel support imparts strength to the product, and being mechanically bound to the graphite layers does not have the potential limitations of adhesive-bound products, specifically in contact with certain solvents or when subject to combinations of high surface stress and high temperature.

This material has a higher blowout resistance, and therefore higher maximum service pressure, than adhesively bonded products, but is more difficult to cut by hand. It can be most easily cut using standard equipment such as waterjet and oscillating knife cutters.

TECHNICAL PROPERTIES

Can be used from -200°C to approx. 450°C*, depending on the installation and operating conditions

- Max. 150 bar* depending on the installation and operating conditions
- High blowout resistance and high mechanical strength
- Very high fault tolerance in assembly and operation
- High compressibility and adaptability to surface defects
- Good heat resistance
- Low ageing or embrittlement, owing to absence of adhesives and binders
- Good chemical resistance
- Graphite: ≥98%
- Chloride content: < 50ppm
- Insert: 316L stainless steel tanged sheet

APPLICATION

Widely applicable for non-aggressive media, such as air, water, steam oils, greases and fuels, weak acids and alkalines.

COLOR

Black

SUPPLY PROGRAMME

- Sheets format: 1500 x 1500 mm and thickness / 1,5 / 2,0 / 3,0 /
- Gaskets according to EN(DIN) and ASME norm are available from stock. Besides that it is possible to cut or punch virtually any special shape or size from a sheet.

TABLE 1: TECHNICAL DATA

| Gasket factor | Norm | Value thickness 2 mm | Unit |
|-------------------------------------|-------------------|----------------------|-------------------|
| Min. surface pressure σ_{vu} | DIN 28090 | 20 | MPa |
| Max. surface pressure σ_{vo} | DIN 28090 | 140 | MPa |
| Minimum temperature | | -200 | °C |
| Maximum temperature | | +450 | °C |
| Compression | ASTM F 36 | 30-35 | % |
| Recovery | ASTM F 36 | >5 | % |
| Max. applicable pressure* | | 150 | bar |
| Density | | 1,0 | g/cm ³ |
| Specific leak-tightness | DIN 3535-6 | <0,1 | mg/(s*m) |
| Residual surface pressure | DIN 52 913 300 °C | >40 | MPa |
| Chloride content | | ≤50 | ppm |
| M | | 2,5 | |
| Y | | 3000 | PSI |

* Depending on temperature en construction.

LOCATIONS

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