



SIGRAFLEX HOCHDRUCKPRO TECHNICAL DATA SHEET

Sigraflex hochdruckpro is a multilayer high – strength graphite sealing sheet comprising 0.5mm thick layers of high – purity graphite foil and 0.05mm thick stainless steel foils.

The anchorage between the various layers of materials, takes place without the aid of glue or similar but through the Hochdruck system (SGL Group Patent).

This seal is particularly suitable for use on toxic, flammable or polluting require low values of fugitive emissions. Can also be used in plants with need Fire – Safety.

Sigraflex HochdruckPro has excellent oxidation resistance and good chemical resistance.

Sigraflex HochdruckPro fits easily on existing flanges due to good capacity for compensation and adaptation.

It can be supplied sheets and gaskets according to DIN-ANSI norms for flanges male-female, RF, FF, and with a drawing for heat exchanger.

CHARACTERISTICS

Metal insert materials:

-) Flat stainless steel foils AISI 316 L

Material cladding metal part:

-) Expanded graphite with density 1.1 g/cm³
-) Ash content less than 0.15 %
-) Chloride content less than 10 ppm
-) Compressibility 30 – 40 %
-) Compressive strength 400 N/mm²
-) Gas permeability less than 0.06 mg/ms

Loss rate according to VDI 2440:

-) $2.3 \cdot 10^{-5}$ mbar l/ms

Gasket factor (DIN 28090):

-) $svu/0.1$ for internal pressure of 10 Bar = 10 N/mm²
-) $m = 1.3$

Gasket factor (ASTM):

-) m factor= 2.5
-) y factor= 2000 psi (13.79 Mpa)

Superficial flange finish:

-) 125 – 500 AARH

Temperature and pressure range:

-) Temperature: – 250 °C + 550 °C
-) Pressure: max 250 bar

Certifications:

-) Certificate of reducing emissions in accordance with VDI 2440/VDI 2200 (TA-Luft certificate)
-) Fire Safety certificate (standard API 607)
-) BAM oxygen Certificate for use on oxygen and explosive atmospheres
-) DVGW certificate (standard DIN 3535-6)

Dimensions of standard sheets:

-) Sheets size: 1000x1000, 1500x1500
-) Thickness: 1.6mm, 2.0mm, 3.00mm, 4.0mm
-) Tolerances thickness: < 1.0mm ± 0.10 m, ≥ 1.0 mm ± 0.3 mm; Length ± 5 mm; Width ± 5 mm