



PLANIGRAPH™ METALBOND LGPC

Composition

Graphite gaskets for 150-300 psi flanges.

Characteristics

Pure flexible graphite C > 98.00 % covered on both side with 2 special polymeric films. Planigraph™ Metalbond LGPC pure graphite flat gaskets are excellent substitutes of CSF gaskets - Compressed Synthetic Fibers - thanks to their smaller creep and for their moderate sensitivity to the thermal cycles.

Applications

Planigraph™ Metalbond LGPC pure graphite gaskets are great for sealing flanges 150 to 300 psi classes. These gaskets style Metalbond LGPC thicknesses 2.0 and 3.0 mm with stainless steel inner eyelet which are suitable for application intended in contact with food applications.

Tech Data

Planigraph™ Metalbond LGPC 2.00 mm th.

Graphite density	gr/cm3	1.0
Carbon Content	%	> 98.0
Ash Content	%	< 2.0
Compressibility	%	40 - 50
Recovery	%	3 - 5
Gas Permeability DIN 3535	cm3/min	< 0.6
Relaxation stress DIN 52913	N/mm2	> 45
Temperature max with steam	°C	450
Temperature max with weak oxidants	°C	450
Temperature min cryo	°C	-196
Maximum assembly load RT	N/mm2	40
Maximum operating pressure	bar	40

- Never use the product to the maximum temperature and pressure associated. Consult the manufacturer for further information
- With weakly oxidizing agents and hot air the temperature must be limited to 450 °C
- Graphite and carbon cannot be used with oxidizing fluids



Planigraph™ Metalbond LGPC

Planigraph™ Metalbond LGPC is a gasket with inner eyelet made by pure expanded mineral graphite protected on both sides by two polymeric films. This solution allows the graphite to maintain its integrity during all the handling and punching steps guaranteeing finally gaskets capable of performing the seal with extreme efficiency. The pressure of use of the gasket is strongly correlated to the sealing surface and it is always suggested to check the ratio between [De-Di] and the thickness of the gasket where De and Di refer to the diameters of the parts of the gasket under compression of the flanges. The ratio must be at least 4 and in this case the maximum compression allowed on the gasket is 25 MPa. The maximum assembly load allowed on the gasket is 40 Mpa. The style Metalbond LGPC is suitable for food applications.



The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.

CARRARA
GLOBAL SEALING SOLUTIONS

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