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 polimeric 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 polimeric 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.

CARRARA GLOBAL SEALING SOLUTIONS

Carrara S.p.A.,
Via Provinciale 1/E - 25030 Adro - BS - Italia
tel. +39 030 7451121 / fax +39 030 7451130
www.carrara.it - info@carrara.it