



# PLANIGRAPH™ LGRHDI

## Composition

- Expanded Graphite Industrial Grade
- Multiple smooth SS316L inserts with a thickness of 0.05 mm

## Characteristics

The Planigraph™ LGRHDI graphite gasketing sheets are suitable for high-temperature and high-pressure applications on RF, FF, LMF, and LTG flanges in piping or industrial machinery. Planigraph™ LGRHDI features low relaxation values combined with excellent mechanical strength.



## Applications

The graphite gaskets Planigraph™ LGRHDI are suitable for all flanges, including RF, FF, LMF, and LTG. Graphite cannot be used with oxidizing fluids.

## Tech Data

### Planigraph™ LGRHDI

Graphite density	gr/cm3	1.0
Carbon Content	%	≥ 98.0
Ash Content	%	≤ 2.0
Sulphur Content	ppm	≤ 1000
Halogen Content	ppm	≤ 200
Reinforcing steel sheet	AISI	316L
Thickness steel sheet	mm	0.05
Tensile Strength	MPa	≥ 4.0
Compressibility	%	25 - 35
Recovery	%	> 15
Relaxation stress DIN 52913	N/mm2	> 45
Temperature max with steam	°C	550
Temperature max with weak oxidants	°C	450
Temperature min cryo	°C	-196
Maximum assembly load RT	N/mm2	200
Maximum operating pressure	bar	200

- Never use the product at its maximum rated temperature and pressure. Consult the manufacturer for further information.
- With weakly oxidizing agents and hot air, the temperature must be limited to 450 °C.
- Flexible graphite and carbon yarns shall not be used with oxidizing fluids.
- With steam and non-oxidizing fluids, the temperature must be limited to 550°C.
- The dimensional tolerances of the gasketing sheets are: W and L ±3.0%, H ±10.0%.

Size	1000 x 1000 - 1500 x 1500 mm	40"x40" - 60"x60"
Thickness	1.0 ± 3.0 mm	1/32" ± 1/8"



The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not exactly represent the product, its color and/or marking.



Carrara S.p.A.

Via Provinciale 1/E - 25030 Adro - BS - Italia  
tel. +39 030 7451121 [www.carrara.it](http://www.carrara.it) [info@carrara.it](mailto:info@carrara.it)