



PLANIGRAPH™ PREMIUM LGRP

Composition

- High-purity expanded mineral graphite Premium Grade with corrosion inhibitor and oxidation retardant with smooth sheet SS316L Th. 0.05 mm

Characteristics

The expanded mineral graphite of Planigraph™ Premium LGRP in these graphite gaskets meets the requirements of the latest update of the EU directive 2011/65/EC (RoHS) and complies with the requirements of the oxidation test EN 14772 section 6.7.



Applications

Expanded mineral graphite is also known for its chemical resistance, making it suitable for applications involving almost all fluids except for oxidants.

Tech Data

Planigraph™ Premium LGRP		
Graphite density	gr/cm3	>1.0
Carbon Content	%	≥ 99.0
Ash Content	%	< 1.0
Sulphur Content	ppm	≤ 100
Chloride Content	ppm	≤25
Fluoride Content	ppm	≤25
Halogen Content	ppm	≤100
Inhibitor of oxidation and corrosion	-	Yes
Thermal Weight Loss 670°C/h	%	≤ 4.0
Reinforcing steel sheet	AISI	316L
Thickness steel sheet	mm	0.05
Tensile Strength	MPa	≥ 4.0
Compression ratio	%	40 - 50
Recovery	%	> 12
Gas Permeability DIN 3535-6	mg/m/s	< 0.1
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	60
Maximum operating pressure	bar	75

- 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.
- Other gasketing sheet dimensions and thicknesses are available on request.
- 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	1.500 x 1.500	60" x 60"
Thickness	1,5 ± 3.0	1/16" ± 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
GLOBAL SEALING SOLUTIONS

Carrara S.p.A.

Via Provinciale 1/E - 25030 Adro - BS - Italia
tel. +39 030 7451121 www.carrara.it - info@carrara.it