



# PLANIGRAPH™ LGRJ

## Composition

- Expanded Mineral Graphite Industrial Grade C > 98%
- Corrugated support sheet SS316L

## Characteristics

- Excellent mechanical strength and thermal conductivity.
- Capable of withstanding high temperatures.
- Ensures trouble-free handling and installation even on large diameters.
- Gaskets for ANSI Standard Flanges Class 150# & 300#, sizes 1/2" ~ 60", and EN 1092 Standard Flanges PN16# & PN40#, sizes DN15 ~ DN600.
- Thicknesses 1/16" (1.6 mm) and 1/8" (3.2 mm).

## Applications


Corrugated semi-metallic gaskets for flanges have demonstrated high reliability and performance across a wide range of applications.

The corrugated metal core is covered with a layer of graphite.

Gaskets featuring expanded graphite layers on both surfaces are particularly suited for low-pressure applications, typically in large-diameter exhaust ducts operating at high temperatures.

They are compatible with almost all industrial fluids, except oxidizing ones.

## Tech Data

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	T °F
	100	1500			0 ÷ 14	-200 ÷ 450 / 550	-328 ÷ 850 / 1022

- 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
- Other gasketing sheet dimensions and thicknesses are available on request



## Planigraph™ LGRJ

The Planigraph™ sales program includes the following items Premium grade (P) and Industrial Grade:

- LGP and LG without insert
- LGRP and LGR with single smooth insert
- LGRFP and LGRF with single or multiple tanged inserts
- LGRHDIP and LGRHDI with multiple smooth inserts
- LGRJ with corrugated insert

The maximum allowable load on the expanded graphite gasket depends on the type and number of metallic inserts and is strongly correlated with the effective sealing surface area of the gasket. It is always advisable to check the ratio between [De-Di], where De and Di refer to the diameters of the parts of the gasket effectively engaged by the flange compression, and the gasket thickness. The ratio should be at least 4. On WN RF flanges, gaskets can be applied up to the pressure class 300 psi. Please refer to the published technical data sheets for the application limits of the Planigraph™ line products.



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