



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/in2	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.



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.



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