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.
- Graphite 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 at its maximum rated temperature and pressure simultaneously. Consult the manufacturer for further information.
- When used with weakly oxidizing agents or hot air, the temperature shall not exceed **450 °C**.
- Flexible graphite and carbon yarn shall not be used with oxidizing fluids.
- Other gasketing sheet dimensions and thicknesses are available on request.

Planigraph™ LGRJ

The Planigraph™ line includes the items Premium grade and Industrial Grade:

- LG without insert
- LGR with single smooth insert
- LGRF with single or multiple tanged inserts
- LGRHDI with multiple smooth inserts
- LGRJ with corrugated insert

The maximum allowable load on expanded graphite gaskets depends on the type and number of metallic inserts and is closely related to the effective sealing area. Verification requires calculating the ratio [(De–Di)/thk], where **De** and **Di** are the diameters of the area actually compressed between the flanges and **thk** is the gasket thickness. The ratio must be ≥ 4. On WN RF flanges, the gaskets can be used up to class 300 psi.

The Planigraph™ line also includes corrugated graphite tapes for maintenance:

- NG – corrugated tape in expanded mineral graphite
- NGA – adhesive corrugated tape in expanded mineral graphite

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CARRARA® GLOBAL SEALING SOLUTIONS

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