



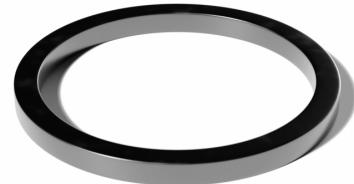
PLANIGRAPH V48APX

Composition

Flexible Mineral Graphite

Characteristics

The Planigraph V48APX graphite sealing ring gaskets for valves offer high thermal and chemical resistance, making them virtually universal and suitable for all industrial applications. The density of the molded product ranges from 1.40 to 1.70 g/cm³, but limitations may occur depending on the size of the graphite sealing ring. The density can be adjusted to the customer's requirements, if technically feasible.



Applications

Planigraph V48APX graphite gasket seals are available both as individual components for general sealing applications and as pre-packaged sets for valves. Thanks to their high thermal and chemical resistance, these gaskets are suitable for use across a wide range of industrial sectors. Planigraph V48APX graphite rings can be used to seal all fluids except oxidizing ones.

Tech Data

Typical properties of the Planigraph rings Style V48Z		Units	Value
Density		g/cm ³	1.40 ÷ 1.70
Ash content		%	≤ 2
Carbon content		%	≥ 98
Chloride content		ppm	≤ 25
Fluoride content		ppm	≤ 10
Halogen content		ppm	≤ 70
Sulfur content		ppm	< 300
Oxidation rate at 670°C		%	< 3
Oxidation inhibitor		-	Y
Passive corrosion inhibitor		-	Y
Dimensions		mm	10 ÷ 2300
Temperature Range		°C	-200 ÷ 450 / 650
pH		-	0 ÷ 14

Tolerances (mm)	Out. D.	Inn. D.	Th.	Wall	Bulk Density
up to 250 mm	[-0,20 ÷ 0,00]	[-0,00 ÷ 0,20]	[+/ - 0,20]	[-0,20 ÷ 0,00]	[+/ - 5,00 %]
from 251 to 500 mm	[-0,25 ÷ 0,00]	[-0,00 ÷ 0,25]	[+/ - 0,20]	[-0,25 ÷ 0,00]	[+/ - 5,00 %]
from 501 to 750 mm	[-0,30 ÷ 0,00]	[-0,00 ÷ 0,30]	[+/ - 0,25]	[-0,30 ÷ 0,00]	[+/ - 5,00 %]
from 751 to 2300 mm	[-0,40 ÷ 0,00]	[-0,00 ÷ 0,40]	[+/ - 0,75]	[-0,40 ÷ 0,00]	[+/ - 7,00 %]

- The peak temperature can be sustained only for short exposure periods.
- With weakly oxidizing agents and hot air, the temperature must be limited to 450 °C.
- With steam and non-oxidizing fluids, the temperature must be limited to 650 °C.
- Flexible graphite and carbon yarns shall not be used with oxidizing fluids.
- When used in a stuffing box at pressures above 100 bar, the product must be used with anti-extrusion rings or in its reinforced version.
- The dimensional tolerances of the molded products refer to the Carrara S.p.A. standard, unless otherwise agreed.



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 info@carrara.it