

# PLANIGRAPH V48ER

## Composition

Energized Expanded Mineral Graphite with SS316L steel foil.

#### **Characteristics**

The PLANIGRAPH V48ER graphite sealing ring gaskets for valves, thanks to their variable specific density, offer an optimal combination of compressibility and strength, adapting to the different pressure requirements of industrial applications. The density can be adjusted to the customer's requirements, if technically feasible. Their construction with pure energized expanded graphite provides greater resilience and reliability.

## **Applications**

These graphite rings are ideal for sealing industrial valves in services compatible with graphite. Thanks to their high thermal and chemical resistance, they are suitable for a wide range of industrial applications that require reliable performance and optimal sealing.

#### **Tech Data**

Typical properties of the PLANIGRAPH rings Style V48ER	Units	Value
Density	g/cm³	1.55 ÷ 1.75
Ash content	%	≤ 1
Carbon content	%	≥ 99
Chloride content	ppm	≤ 10
Fluoride content	ppm	≤ 10
Halogen content	ppm	≤ 40
Sulfur content	ppm	< 300
Oxidation rate at 670°C	%	< 4
Oxidation inhibitor	-	Υ
Passive corrosion inhibitor	-	Υ
Metal reinforcement (others available on demand)	-	SS316L
Dimensions	mm	10 ÷ 2300
Temperature Range	°C	-200 ÷ 450 / 650
рН	-	0 ÷ 14

Tollerances (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]	$[-0.00 \div 0.40]$	+/- 0,75	[-0,40 ÷ 0,00]	+/- 7,00%

- The peak temperature can be sustained for short exposures
- With weakly oxidizing agents and hot air the temperature must be limited to 450  $^\circ$  C With steam and non-oxidizing fluids the temperature must be limited to 650  $^\circ$  C
- Graphite and carbon cannot be used with oxidizing fluids
- The dimensional tolerances of the molded products refer to the Carrara Spa standard, unless otherwise agreed



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.



### PLANIGRAPH V48ER

To answer to the significant expansion of the industrial valve market, Carrara has organized its PLANIGRAPH Ring production according to the most modern requirements. Carrara has designed its production facilities to flexibly meet customer needs and, thanks to a substantial equipment fleet and a modern, precise production schedule, it can manage production batches ranging from a few pieces to thousands, using high-quality materials.

