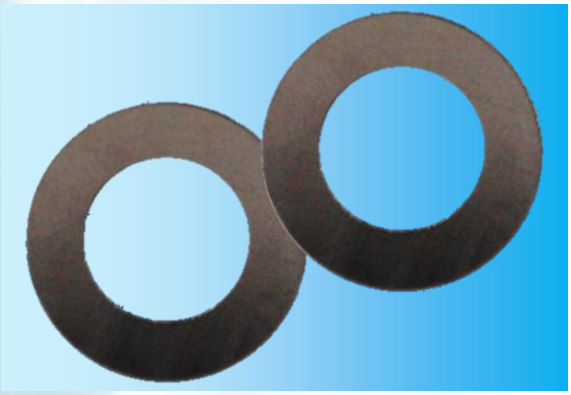
GUAVAP

Product information

Nr. 009 Rev 5/2019

GRAFSEAL



Constant Tightening:

σv_u	(MPa)		30
σv_o	(MPa)		160
σb_o	(MPa)	a 150°C	-
		a 200°C	-
		a 300°C	140

		1.5mm	2.0mm	3.0mm
Y	(MPa)	17	17	17
m		2.0	2.0	2.0
R_Z	(µm)	160	160	160

Chemical Composition:

Element	Referring to	Value	UM
Carbon Content	ASTM C571	≥ 99	%
Ashes Content	ASTM C571	≤ 1	%
Chloride Content	ASTM F1277	≤ 50	p.p.m.
Fluoride Content	ASTM F1277	≤ 50	p.p.m.
Sulphide Content	ASTM C816	-	p.p.m.

Supply data:

COLOR: Black

STANDARD THICKNESS: 0.5; 1,0; 1,5; 2,0; 3.0 (other on request)

Descption:

Gasket obtained by cutting pure flexible graphite plate, made from mineral expanded graphite

Application:

Material commonly used in all applications where there isn't contact with oxidizing fluids and temperatures above 250 ° C; due to it's high plasticity is able to ensure the seal on uneven surfaces.
Another particularity is given by the high stability over time of its mechanical properties, determined by his capacity of not to undergoing the thermal shock.
Excellent resistance to strong acids with exceptions of nitric acid.

Working condition:

Working pressure	50	bar
Temperature:		
Min temperature	-240	°C
Working in continuous with oxidizing atmosphere	450	°C
Working in continuous with inert atmosphere	2000	°C

Is not advised the use in the maximum temperature and at the same time with the maximum pressure.

Technical data:

Properties	Referring to	Value	UM
Density		1.1	g/cm^3
Compressibility	ASTM F36	45	%
Recovery	ASTM F36	10	%
Stress Retention after 16h, 300°C at 50 bar	DIN 52913	≥ 48	N/mm^2
Seleability	DIN 3535/6	≤ 0.10	mg/(s·m)
Tensile strength	ASTM F 152	≥ 4	N/mm^2
Electrical resistivity (20°C):			
• ⊥	-	8 ÷ 10	Ω µm
• //		600 ÷ 650	
Thermal conductivity (20°C):			
• ⊥	-	0.33	cal/ cm°C sec
• //		0.01	
Thermal expansion (20°C):			
• ⊥	-	0.36	10^{-6} cm/ cm°C
• //		27	

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