

IsoSeal GGr

Specification **Flange-insulation-gasket for gas systems - cathodic corrosion protection**

	for EN 1092-1	for ANSI B 16.5
	DIN 2632-2637	ANSI B 16.47
Dimensions	DN 15 – 900	" ½ - 40
	special size on request	special size on request
Pressure levels	PN 6 – 64	Class 150, 300, 400

Carrier material

Binder Epoxy resin
 Material glass filament fabrics
 Appearance light green / green

	<i>unit</i>	<i>value</i>	<i>test method</i>
Thickness	mm	4,0 - 20	
Density	g/cm ³	2,0	ISO 1183/A
Tensile strength	MPa	240	ISO 527
Residual stress	MPa	500 / 350 (20°C / 180°C)	ISO 604
Bowing strength	MPa	300 / 200 (120°C / 150°C)	ISO 178
Operating temperature	°C	150	IEC 60216
Maximum temperature	°C	180	IEC 60216
Low temperature	°C	> - 60	(more on request)
Breakdown voltage (at 90° parallel to layering)	kV	40	ICE 60243
Dielectric strength (1min-test-voltage, 3 mm thickness)	kV/mm	13	IEC 60243
Waterabsorption	mg	20	ISO 62/1

Gasket

Material Graphite
 Appearance anthracite

	<i>unit</i>	<i>value</i>	<i>test method</i>
Thickness	mm	1,5	
Density	g/cm ³	1,25	DIN E28090-2
Residual stress	MPa	> 45	DIN 52913
Compression	%	> 20	ASTM F36A
Recovery	%	> 12	ASTM F36A
Ash residue	%	≤ 2	DIN 51903
Chloride content	ppm	≤ 50	
Min. surface pressure	MPa	15	
Max. surface pressure	MPa	120	
Max. temperatur	°C	500	

Certifications: DVGW NG-5124BL0367
 TA-Luft MPA Stuttgart certificate Nr. 0019/2008
 BAM Approval to oxygen up to 100 °C AZ.2-2357/2011

Comments: Gasket carrier made of **epoxy resin bonded glass filament fabrics** have a very good resistance against most chemicals, fuels, lubricates, especially cold and hot water, saturated steam and superheated steam.
 Exceptions: strong alkalines, strong acids and oxidants.
Expanded graphite is an excellent sealing material with no media restriction. It is aging and temperature resistant and is approved for temperature from – 60 °C to + 500 °C.

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