

# IsoSeal D200

Specification **Flange-insulation-gasket for saturated steam and superheated steam, for systems at high temperature – 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 – 160	Class 150, 300, 600, 900

## Carrier material

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

	<i>unit</i>	<i>value</i>	<i>test method</i>
Thickness	mm	4,0 – 20	
Density	g/cm <sup>3</sup>	2,0	ISO 1183/A
Tensile strength	MPa	300	ISO 527
Residual strength	MPa	500 / 350 / 300 (20°C / 180°C / 220°C)	ISO 604
Bowing strength	MPa	250 / 150 (120°C / 150°C)	ISO 178
Operating temperature	°C	200	IEC 60216
Maximum temperature	°C	220	IEC 60216
Low temperature	°C	> - 60	(more on request)
Breakdown voltage (at 90° parallel to layering)	kV	60	IEC 60243
Dielectric strength (1min-test-voltage, 3 mm thickness)	kV/mm	13	IEC 60243
Waterabsorption	mg	30	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 <sup>3</sup>	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. temperature	°C	500	

**Comments:** Gasket carrier made of **silicon resin Phlogophit Glimmer** have a very good resistance against most chemicals, fuels, lubricates and water.  
**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.  
 Exception: strong oxidising acids

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