

IsoSeal D200 PTFE compact

Specification **Flange-insulation-gasket for saturated steam and superheated steam, for systems with high temperature and pressure - cathodic corrosion protection**

	for EN 1092-1	for ANSI B 16.1
	DIN 2632-2637	ANSI B 16.2
Dimensions	DN 25 – 500	" 1 - 32
	special size on request	special size on request
Pressure levels	PN 10 – 64	Class 150, 300, 600

Carrier material

Binder Epoxy resin
 Material glas filament fabrics
 Appearance lighth 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	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 PTFE sealing ring
 Appearance white
 Dimensions rectangular shape according to flange dimensions

	<i>unit</i>	<i>value</i>	<i>test method</i>
Thickness	mm	6	
Density	g/cm ³	2,15-2,18	DIN E28090-2
Tensile strength	MPa	30	
Residual stress			DIN 52913
1% yield point	MPa	10	
10% yield point	MPa	18	
Hardness	Shore D	55-90	
Waterabsorption	Gew. %	< 1	DIN 53495
Min. surface pressure	MPa	35	
Max. low temperature	°C	-180	
Operating temperature	°C	280	Continuous operation

Comments: Gasket carrier made of epoxy resin bonded glass filament fabrics in combination with a PTFE sealing ring have a very good resistance against most chemicals and water (up to about 220 °C).
 Exceptions: strong alkalines, acids and oxidants, saturated steam and superheated steam
 The PTFE sealing ring (rectangular shaped) is an excellent sealing with no media restriction resistant and is approved for temperature pp to 300 °C.

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