

# IsoSeal D300 PTFE compact

Specification **Flange-insulation-gasket for superheated steam – 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	Polyimide resin
Material	glas filament fabrics
Appearance	brown

	<i>unit</i>	<i>value</i>	<i>test method</i>
Thickness	mm	4,0	
Density	g/cm <sup>3</sup>	1,9 – 2,0	DIN 53479
Tensile strength	MPa	250	DIN 53455
Compressive strength	MPa	500 / 350 / 250 (20°C / 200°C / 280°C)	DIN 53454
Bending strength	MPa	300	DIN 53452
Impact strength	kJ/m <sup>2</sup>	150	DIN 54453
Operating temperature	°C	280	IEC 60216/T1 (continuous operation)
Maximum temperature	°C	300	DIN 44904
Specific volume resistance	Ωcm	10 <sup>16</sup>	DIN/VDE 0303T30
Dielectric constant (1MHz)		4,7	DIN 53483
Dielectric strength	kV/mm	15-20	DIN 53841
Waterabsorption	Gew. %	< 0,2	DIN 53495

## 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 <sup>3</sup>	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 temperture	°C	-180	
Operating temperature	°C	280	Continuos operation

**Comments:** Gasket carrier made of **polyimide 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 285 °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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