

Gaskets

Fibre rubber sealings

thoenes



thoenes BA110

Sealing material with good chemical resistance and suitable for higher mechanical stress.

Basis: Aramid fibre, NBR

Colour: Green

Surface coating: Standard - without non-stick coating

On request - graphite, PTFE and non-stick coating

Certifications: DIN-DVGW, ELL, WCs/ WRAS

Applications: Very suitable, economical sealing material for gases, foodstuffs and for

the chemical industry, shipbuilding, automotive and engine

construction, optimal seal for boiler feed water.

Technical specifications (typical values at 2 mm thickness)

Description	DIN 28091-2		FA-A1-0
Density	DIN 28090-2	g/cm³	1,8
Compressibility	ASTM F 36/J	%	9
Resilience	ASTM F 36/J	%	55
Tensile Strength	DIN 52910	MPa	11
Pressure resistance	DIN 52913		
50 MPa, T= 175°C, 16 h		MPa	25
50 MPa, T= 300°C, 16 h		MPa	1
Media resistance in Oil IRM 903, 5 h, 150 °C	ASTM F 146		
Thickness increase		%	8
Media resistance in ASTM fuel B, 5 h, 23 °C	ASTM F 146		
Thickness increase		%	10
Specific leakage rate	DIN 3535/6	mg/m*s	< 0,07
Max. operating conditions			
Maximum temperature		°C	280
Continuous temperature		°C	220
Continuous temperature at steam		°C	180
Pressure		bar	80
Cold compression value ε κsw	DIN 28090-2	%	8,5
Cold rebound value ε KRW	DIN 28090-2	%	5,1
Warm setting value ε wsw/200 °c	DIN 28090-2	%	25
Warm rebound value ε wrw/200°c	DIN 28090-2	%	1,2
Reverse deformation value R	DIN 28090-2	mm	0,0283

1500 mm x 1500 mm; 3000 mm x 1500 mm; **Dimensions:** Plate sizes *

4500 mm x 1500 mm

Thickness * 0,5 mm; 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm < 1mm ±0,1mm respectively ≥ 1 mm ±10% Thickness tolerance

Length tolerance ±5% Width tolerance ±5%

^{*} Different sizes and thicknesses on request

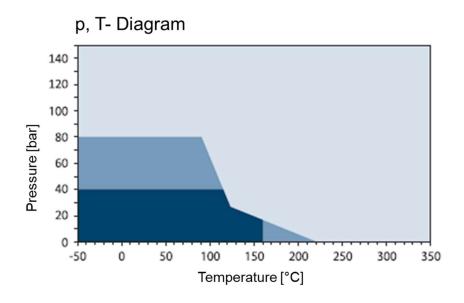




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Recommendations for use



- General suitability Under common installation practices and chemical compatibility.
- Conditional sutability Appropriate measures ensure maximium performance for joint design and gasket installation. Technical consultation is recommended.
- Limited suitability Technical consultation is mandatory.

The indicated temperatures and pressures are peak values and should not be used simultaneously. The information can only serve as a guideline, as these are not only dependent on the sealing material, but also on the installation conditions. Very important influencing factors are: seal thickness, type of medium, flange type and surface stress. Special care should be taken with steam applications. In case of doubt, our experts are always ready to find the optimal sealing solution for the application.