

Gaskets Fibre rubber sealings

thoenes



thoenes[®] BA130

The gasket material sheet has been specially developed for demanding applications where only low bolt loads permissible and flange irregularities need to be compensated. It offers a high compressibility and an increased recovery in addition to improved mechanical and thermal performances. It can be used for sealing mineral oils, fuels, lubricants refrigerants, steam, air and many other media.

Basis:	Synthetic fibre, special fillers, NBR
Colour:	Red
Surface coating:	Standard - without non-stick coating On request - graphite, PTFE and non-stick coating
Certifications:	DVGW DIN 3535-6, ELL, EC 1935/2004
Applications:	It can be used for sealing mineral oils, fuels, lubricants refrigerants, steam, air and many other media.

Technical specifications (typical values at 2 mm thickness)

Density	DIN 28090-2	g/cm³	1.5
Compressibility	ASTM F 36/J	%	25
Resilience	ASTM F 36/J	%	64
Tensile Strength	DIN 52910	MPa	6
Pressure resistance	DIN 52913		
50 MPa, T= 175°C, 16 h		MPa	30
50 MPa, T= 300°C, 16 h		MPa	20
Media resistance in Oil IRM 903, 5 h, 150 °C	ASTM F 146		
Thickness increase		%	2
Media resistance in ASTM fuel B, 5 h, 23 °C	ASTM F 146		
Thickness increase		%	6
Specific leakage rate	DIN 3535/6	mg/m*s	0.02
Max. operating conditions			
Maximum temperature		°C	350
Continuous temperature		°C	250
Continuous temperature at steam		°C	200
Pressure		bar	100
Cold compression value ε κsw	DIN 28090-2	%	18.4
Cold rebound value ε κκw	DIN 28090-2	%	10
Warm setting value ε wsw/200 °c	DIN 28090-2	%	14.6
Warm rebound value ε wRW/200°C	DIN 28090-2	%	1.6

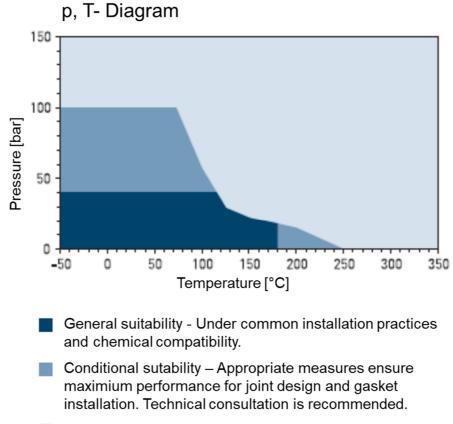
Dimensions:	Plate sizes *	1500 mm x 1500 mm; 3000 mm x 1500 mm 4500 mm x 1500 mm						
	Thickness *	0.5 mm; 1.0 mm; 1.5 mm; 2.0 mm; 3.0 mm						
	Thickness tolerance	< 1mm \pm 0.1mm respectively \geq 1 mm \pm 10%						
	Length tolerance	± 5 %						
	Width tolerance	± 5 %						
	Thickness above 1 mm	n ± 10 %						
	* Different sizes and thickne	sses on request						





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Recommendations for use



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.

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thoenes		Legend		Resistance/ recommendation depends on operation o	onditi	ons				
divenes		-	v	Not resistant						_
Substance Acetamide	J [-		Substance Dimethylformamide (DMF)				Substance Oils (vegetables)		
	- - -			Dinteryiornamide (Divir)				Olisi (Vegetables) Oleic acid	V	
				Diphyl (Dowtherm A)	<u> </u>			Oleum (Sulfuric acid, fuming)		
Acetone] [2		Esters		V		Oxalic acid		
		_	✓	Ethane (gas)				Oxygen (gas)		1
	J [_		Ethers			<u> </u>	Palmitic acid	V	
]	 ✓ 	Ethyl acetate				Paraffin oil Pentane	✓	
	_			Ethyl alcohol (Ethallol)				Perchloroethylene	_	
	J [_		Ethyl chloride (gas)			V	Petroleum (Crude oil)		[
Air (gas)	J [ב		Ethylene (gas)				Phenol (Carbolic acid)		[
	_	2		Ethylene glycol				Phosphoric acid, 40 %		[
	- ·	_		Formaldehyde (Formalin)		 ✓ 		Phosphoric acid, 85 %]
	<u> </u>			Formamide Formic acid, 10 %	□ ☑			Phthalic acid Potassium acetate	_	l
		_ _		Formic acid, 85 %				Potassium bicarbonate	- -	ĺ
Aluminium chloride	_	2		Formic acid, 100 %			V	Potassium carbonate		[
Aluminium sulfate] [2		Freon-12 (R-12)	7			Potassium chloride	V	[
		_	v	Freon-134a (R-134a)	2			Potassium cyanide		Ľ
		2 7		Freon-22 (R-22)				Potassium dichromate		
				Fruit juices				Potassium hydroxide Potassium iodide	-	
	- - -			Gasoline				Potassium iourde		
	_	- -		Gelatin	<u> </u>			Potassium permanganate		
Anhydrides] [2		Glycerine (Glycerol)	7			Propane (gas)	☑	1
	_	ב	V	Glycols		V		Propylene (gas)		
		-	<u> </u>	Helium (gas)		<u> </u>		Pyridine		
	고 [고 [Heptane Hydraulic oil (Glycol based)	✓ ✓			Salicylic acid Seawater/ brine		
	3 0			Hydraulic oil (Ciyeor bused) Hydraulic oil (Mineral type)				Silicones (oil/ greases)	-	Ì
Benzaldehyde		-	V	Hydraulic oil (Phosphate ester based)		V		Soaps	-	I
Benzene	J [ו		Hydrazine			V	Sodium aluminate		1
		2		Hydrocarbons				Sodium bicabonate		
	고 [고 [-	Hydrochloric acid, 10 %	<u> </u>			Sodium bisulfite		
		- -		Hydrochloric acid, 37 % Hydrofluoric acid, 10 %			✓ ✓	Sodium carbonate Sodium chloride	✓	
				Hydrofuoric acid, 48 %			<u>_</u>	Sodium cyanide		Ì
Boric acid	J [ב		Hydrogen (gas)	\checkmark			Sodium hydroxide		I
	_			Iron sulfate				Sodium hypochlorite (Bleach)	-	
		-	-	Isobutane (gas)	v			Sodium silicate (Water glass)		
	고 [고 [Isooctane	√ √			Sodium sulfate		
,	3 0			Isopropyl alcohol (Isopropanol)	<u> </u>			Starch	-	ĺ
Calcium hydroxide	J [ר		Kerosene	7			Steam	☑	l
	J [Ketones		V		Stearic acid	☑	[
		_		Lactid acid				Styrene		
		ন স		Lead acetate	✓ ✓			Sugars Sulfur	_	
	_	2		Magnesium sulfate	✓			Sulfur dioxide (gas)		ľ
	_	- -		Maleic acid		<u> </u>		Sulfuric acid, 20 %		ľ
Chlorobenzene	_	2		Malic acid		V		Sulfuric acid, 98 %		
		_	2	Methane (gas)	V			Sulfuryl chloride		1
		2 7		Methyl alcohol (Methanol)				Tar Tartaria asid	_	
		_	✓ ✓	Methyl chloride (gas) Methylene dichloride				Tartaric acid Tetrahydrofuran (THF)		
		_		Methyl ethyl ketone (MEK)		V		Titanium tertachloride	-	1
Copper acetate	J [N-Methyl-pyrrolidone (NMP)		☑		Toluene	V	1
	J [_		Milk				2,4-Toluenediisocyanate	-	
		_		Mineral oil (ASTM no. 1)	 ✓ 	<u> </u>		Transformer oil (Mineral type)		Ļ
		_	 ✓ 	Motor oil	✓ ✓			Trichloroethylene		┢
	_			Naphtha Nitric acid, 10 %				Vinegar Vinyl chloride (gas)	_	
		_ _		Nitric acid, 65 %				Vinyl chorac (gas)	_	t
Decalin	J [ב		Nitrobenzene			v	Water	V	
				Nitrogen (gas)	V			White spirits		
	_	2	<u> </u>	Nitrous gases (NO _x)			-	Xylenes		
Dibutyl phthalate	Ŀ	2		Octane	✓			Xylenol		

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