

Gaskets **Fibre sealings** 





## 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	0.009
Max. operating conditions			
Maximum temperature		°C	350
Continuous temperature		°C	250
Continuous temperature at steam		°C	200
Pressure		bar	100
Cold compression value ε <sub>κsw</sub>	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 ±0.1mm respectively ≥ 1 mm ±10%						
	Length tolerance	± 5 %						
	Width tolerance	± 5 %						
	Thickness above 1 mm ± 10 %							
* Different sizes and thicknesses on request								

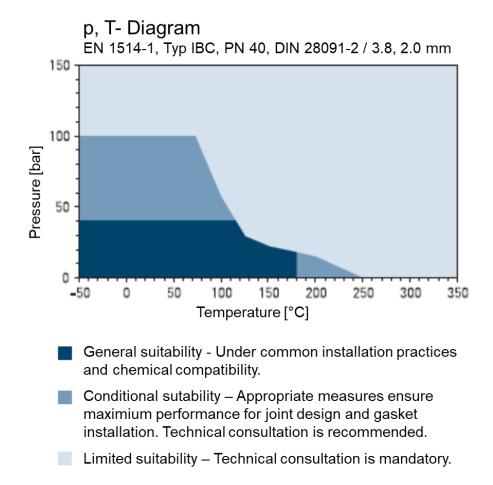
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## **Recommendations for use**



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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			I	Resistance/ recommendation depends on operation of	Jonun	5115					
thoenes		Legend		Not resistant							
Substance				Substance				Substance			Т
Acetamide	7			Dimethylformamide (DMF)		2		Oils (vegetables)			
Acetic acid, 10 %	2			Dioxane				Oleic acid	2		-
Acetic acid, 100 % (Glacial)				Diphyl (Dowtherm A)				Oleum (Sulfuric acid, fuming)			
Acetone				Esters Ethane (gas)				Oxalic acid Oxygen (gas)			
Acetylene (gas)				Ethers				Palmitic acid		H	-
Acid chlorides				Ethyl acetate				Paraffin oil	2		-
Acrylic acid				Ethyl alcohol (Ethanol)	2			Pentane	2		
Acrylonitrile			<b>V</b>	Ethyl cellulose		2		Perchloroethylene			
Adipic acid				Ethyl chloride (gas)				Petroleum (Crude oil)			_
Air (gas)				Ethylene (gas)				Phenol (Carbolic acid)	<u> </u>		_
Alcohols		<ul> <li>✓</li> </ul>		Ethylene glycol				Phosphoric acid, 40 %			
Aldehydes				Formaldehyde (Formalin) Formamide				Phosphoric acid, 85 % Phthalic acid			-
Aluminium acetat				Formic acid, 10 %				Potassium acetate			
Aluminium chlorate				Formic acid, 85 %				Potassium bicarbonate	2		-
Aluminium chloride				Formic acid, 100 %				Potassium carbonate	2		
Aluminium sulfate				Freon-12 (R-12)	2			Potassium chloride	2		
Amines				Freon-134a (R-134a)				Potassium cyanide			-
Ammonia (gas)				Freon-22 (R-22)				Potassium dichromate			
Ammonium bicarbonate		-		Fruit juices				Potassium hydroxide			
Ammonium chloride Ammonium hydroxide				Fuel oil Gasoline				Potassium iodide Potassium nitrate	✓ ✓	믐	-
Amyl acetate				Gelatin				Potassium permanganate			-
Anhydrides				Glycerine (Glycerol)				Propane (gas)			
Aniline			7	Glycols		2		Propylene (gas)			
Anisole		2		Helium (gas)	2			Pyridine			
Argon (gas)	2			Heptane	2			Salicylic acid			
Asphalt				Hydraulic oil (Glycol based)				Seawater/ brine			
Barium chloride		므		Hydraulic oil (Mineral type)				Silicones (oil/ greases)		믄	
Benzaldehyde Benzene				Hydraulic oil (Phosphate ester based) Hydrazine				Soaps Sodium aluminate			
Benzoic acid				Hydrocarbons				Sodium alumnate Sodium bicabonate		H	-
Bio-diesel				Hydrochloric acid, 10 %				Sodium bisulfite			
Bio-ethanol	2			Hydrochloric acid, 37 %				Sodium carbonate	2		
Black liquor				Hydrofluoric acid, 10 %				Sodium chloride	2		
Borax				Hydrofuoric acid, 48 %				Sodium cyanide			
Boric acid		<u> </u>		Hydrogen (gas)		<u> </u>		Sodium hydroxide			
Butadiene (gas)		<u>-</u>		Iron sulfate Isobutane (gas)	2			Sodium hypochlorite (Bleach)			
Butane (gas) Butyl alcohol (Butanol)				Isooctane				Sodium silicate (Water glass) Sodium sulfate			-
Butyric acid				Isoprene				Sodium sulfide			-
Calcium chloride	7			Isopropyl alcohol (Isopropanol)	7			Starch			
Calcium hydroxide	1			Kerosene	1			Steam	2		
Carbon dioxide (gas)	2			Ketones				Stearic acid	<b>V</b>		
Carbon monoxide (gas)	2			Lactid acid				Styrene			
Cellosolve				Lead acetate				Sugars			-
Chlorine (gas) Chlorine (in water)				Lead arsenate				Sulfur Sulfur dioxide (gas)		2 2	
Chlorine (In water) Chlorine (liquid)				Magnesium sulfate Maleic acid				Sulfur dioxide (gas) Sulfuric acid, 20 %			
Chlorobenzene				Malic add				Sulfuric acid, 98 %		H	-
Chloroform				Methane (gas)				Sulfuryl chloride			-
Chloroprene				Methyl alcohol (Methanol)	7			Tar	2		
Chlorosilanes				Methyl chloride (gas)				Tartaric acid		Ø	
Chromic acid				Methylene dichloride				Tetrahydrofuran (THF)			_
Citric acid				Methyl ethyl ketone (MEK)				Titanium tertachloride		띧	-
Copper acetate	2	-		N-Methyl-pyrrolidone (NMP)				Toluene			,
Copper sulfate Creosote				Milk Mineral oil (ASTM no. 1)				2,4-Toluenediisocyanate Transformer oil (Mineral type)			
Cresols (Cresylic acid)				Motor oil				Trichloroethylene			
Cyclohexane				Naphtha				Vinegar	2		
Cyclohexanol	2			Nitric acid, 10 %				Vinyl chloride (gas)			
Cyclohexanone				Nitric acid, 65 %				Vinylidene chloride			
Decalin	2			Nitrobenzene			2	Water	2		
Dextrin				Nitrogen (gas)				White spirits			
Dibenzyl ether				Nitrous gases (NO <sub>x</sub> )				Xylenes			-
Dibutyl phthalate				Octane				Xylenol		님	-
Dimethylacetamide (DMA)		1		Oils (Essential)				Zinc sulfate	1		

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