



# Compressed Synthetic Fibre Jointing Sheets

## General data

Standard sheet size:

1,5 x 1,5 m

1,5 x 1,0 m

Another sheet sizes are available upon the customer request.

Size tolerances ± 2 %

Standard thickness:

0,4; 0,5; 0,8; 1,0; 1,5; 2,0; 3,0; 4,0; 5,0; 6,0 mm

with wire insertion

0,8; 1,0; 1,5; 2,0; 3,0; 4,0; 5,0; 6,0 mm

Thickness tolerances:

0,4 – 0,8 ± 0,1 mm

1,0 – 5,0 ± 10 %

## Surface:

All jointings are produced with an antistick surface on one side.

## Technical data

Marking acc. to DIN 28 091-2

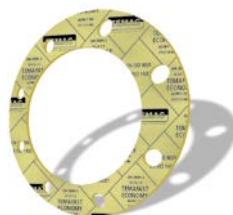
Marking acc. to ASTM F 104

Max. temperature\* peak °C

continual °C

Max. pressure\* Bar

## TEMAFAST ECONOMY



Colour	Yellow
Wire insertion	No
Description	The economic version of jointing manufactured from mixture of organic fibres with mixture NBR/SBR rubber binder.
Application	This grade can be used for wide range of applications throughout various types of industries at lower parameters.
Certification**	Germanischer Lloyd, TZW, PZH, GOST

## TEMAFAST



Colour	Red
Wire insertion	No
Description	Basic jointing manufactured from organic fibres with NBR binder.
Application	This grade has wide industrial usage at low duty applications in many different industrial sectors.
Certification**	Germanischer Lloyd, PZH, GOST

## Typical parameters of 2 mm thick jointing

Density DIN 28090-2 g/cm<sup>3</sup>

Compressibility ASTM F 36 %

Recovery ASTM F 36 %

Residual stress (175°C) DIN 52 913 ≈ MPa

Gas leakage λ<sub>2,0</sub> DIN 3535-6/99 ≈ mg/(m\*s)

Fluid resistance - thickness increase

Oil IRM 903 (5h/150°C) ASTM F 146 %

ASTM Fuel B (5h/23°C) ASTM F 146 %

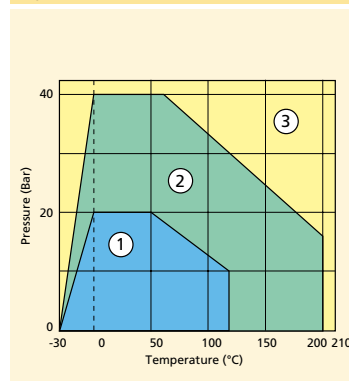
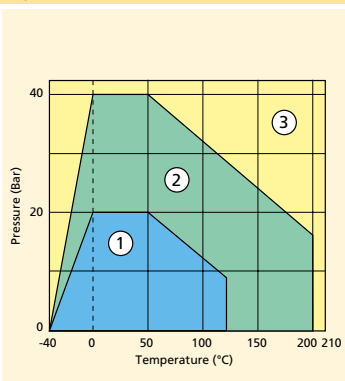
Density	1,7-2,1
Compressibility	12
Recovery	50
Residual stress (175°C)	20
Gas leakage λ <sub>2,0</sub>	0,1
Oil IRM 903 (5h/150°C)	15
ASTM Fuel B (5h/23°C)	15

Density	1,6-1,9
Compressibility	18
Recovery	50
Residual stress (175°C)	20
Gas leakage λ <sub>2,0</sub>	0,1
Oil IRM 903 (5h/150°C)	5
ASTM Fuel B (5h/23°C)	10

- 1 – suitable area (even for steam application)
- 2 – suitable extended area, technical advice is recommended
- 3 – for this area technical consultation is mandatory

\*Maximum temperature and pressure values can not be used simultaneously.

\*\*Please visit our web pages [www.temac.cz](http://www.temac.cz) for further updated information.



General data

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1,5 x 1,0 m

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Size tolerances ± 2 %

Standard thickness:

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Thickness tolerances:

0,4– 0,8 ± 0,1 mm

1,0 – 5,0 ± 10 %

Surface:

All jointings are produced with an antistick surface on one side.

Technical data

Marking acc. to	DIN 28 091-2	FA-MA-1-0 (ST)	FA-M-1-0 (ST)
Marking acc. to	ASTM F 104	F712 111 M5 (M7)	F712 111 M6 (M7)
Max. temperature*	peak °C	400	450
	continual °C	250 (steam 200)	330 (steam 250)
Max. pressure*	Bar	100	120

Typical parameters of 2 mm thick jointing

Density	DIN 28090-2	g/cm³	1,7-2,0	1,7-2,0
Compressibility	ASTM F 36	%	10	10
Recovery	ASTM F 36	%	50	55
Residual stress (175°C)	DIN 52 913	= MPa	30	32
Gas leakage λ <sub>2,0</sub>	DIN 3535-6/99	= mg/(m*s)	0,06	0,04

Fluid resistance - thickness increase

Oil IRM 903 (5h/150°C)	ASTM F 146	%	3	3
ASTM Fuel B (5h/23°C)	ASTM F 146	%	5	5



1 – suitable area (even for steam application)

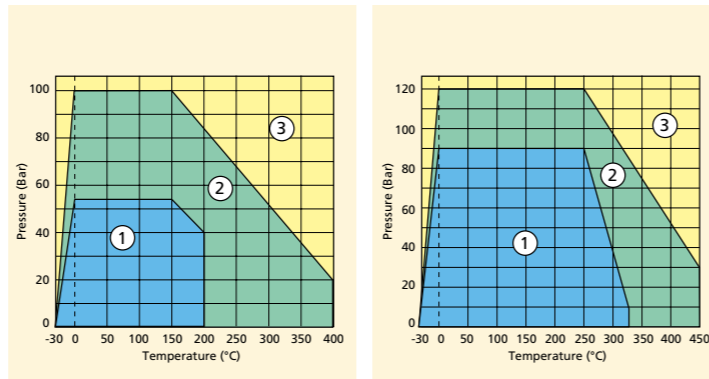
2 – suitable extended area, technical advice is recommended





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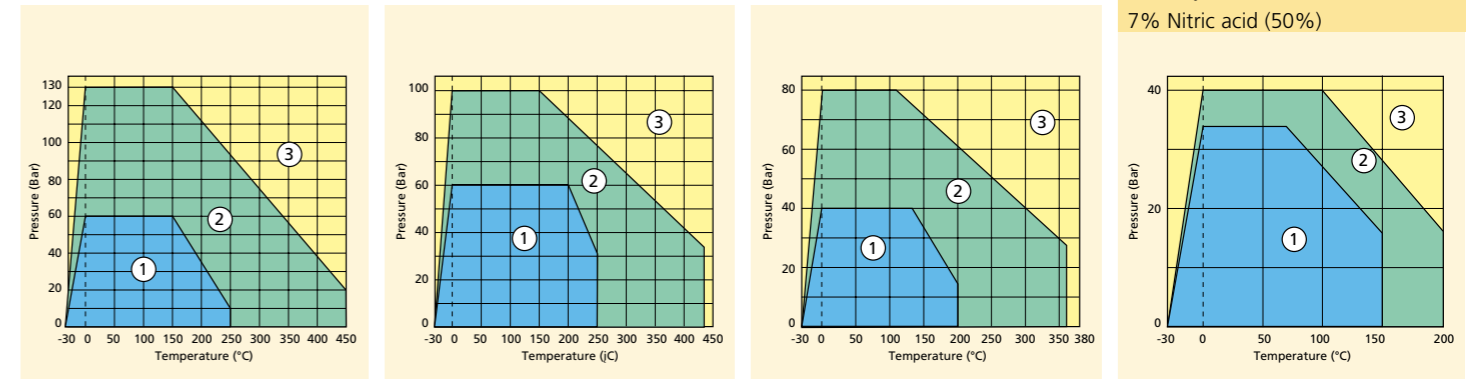
TEMASIL - NEW GENERATION	TEMASIL HT	
		
Colour	Blue	Light blue
Wire insertion	Yes	Yes
Description	The new generation of high quality material based on a blend of special temperature resisting fibres and other agents with NBR. It is easy to cut due its flexibility and smooth surface.	Superior performance copressed jointing material incorporating a blend of special heat resistant aramid fiber and high quality nitrile rubber binder. Completely fresh ecological type of sheets suitable for elevated temperature and steam applications, exhibiting excellent gas sealability.
Application	This general purpose jointing sheet is regardful of environment and can be used in the wide range of industries such as petrochemical, chemical, food and oil as well as engineering area.	Due to its composition of high quality raw materials, this particular grade is used in petrochemical, chemical and food industries, wide area of machinery. It is suitable for oils, fuels, lubricants, alcohol, gases, hydrocarbons, water, cooling liquids, and most diluted acids and alkalies.
Certification**	Germanischer Lloyd, DVGW, BAM, TZW / W270, PZH, TA Luft, GOST	Germanischer Lloyd, DVGW, BAM, TA Luft, API 607, GOST



TEMAPLUS	TEMACARB	GRAFTEM ECONOMY	TEMACID
			
Green	Black	Black	Grey
Yes	Yes	Yes	No
Superior performance jointing material incorporating a blend of special heat resistant aramid fibres with a high quality NBR binder.	Premium quality carbon fibre reinforced material with a high quality nitrile rubber binder.	Economical type of non-asbestos gasketing sheet which combines graphite reinforced with aramid fibres and a low content of rubber binder system.	Premium quality of compressed gasket sheet material based on a blend of fibres with a special acid resistant binder system.
This gasketing sheet with excellent mechanical properties (high resistance to creep under elevated temperature and pressure) is suitable for oils, fuels, lubricants, alcohol, gases, hydrocarbons, cooling liquids and most diluted acids and alkalies.	A universal grade especially suitable for use under alkaline conditions, with good steam resistance. It also possesses excellent creep resistance and is suitable for applications with oils, fuels, alkalis medium and refrigerants.	This jointing sheet with excellent mechanical properties is suitable for many applications including fuel, oil, coolants, hydrocarbons, gas and steam.	A chemical grade material suitable for most of acids & alkalis, oils, fuels and refrigerants.
Germanischer Lloyd, UDT Poland, GOST	GOST	GOST	GOST
FA-AM-1-0 (ST)	FA-CA-1-0 (ST)	FA-AZ-1-0 (ST)	FA-A-4Z-0
F712 111 M6 (M7)	F712 110 M6 (M7)	F712 110 M5 (M7)	F712 122 M5
450	450	360	200
250 (steam 200)	250 (steam 250)	200 (steam 180)	150 (steam 130)
130	100	80	40

1,6-1,9	1,6-1,9	1,8-2,1	1,7-2,1
10	9	5-15	10
50	50	50	50
32	32	30	20
0,03	0,05	0,1	0,1

3	3	5	16% Sulphuric acid (96%)
5	5	10	15% Hydrochloride acid (36%)
			7% Nitric acid (50%)



## Chemical resistance table

	Temafast Economy	Temafast	Temasil New Generation	Temasil HT	Temaplus	Temacarb	Graftem Economy	Temacid
Acetic acid 100%	C	C	A	A	A	A	A	A
Acetone	B	B	B	B	B	B	B	A
Acetylene	A	A	A	A	A	A	A	A
Air	A	A	A	A	A	A	A	A
Aluminium chloride	A	A	A	A	A	A	A	A
Ammonia	B	B	A	A	A	A	A	A
Ammonium hydrogenphosphate	B	B	A	A	A	A	A	A
Barium chloride	A	A	A	A	A	A	A	A
Benzene	B	B	A	A	A	A	A	A
Boric acid	B	B	A	A	A	A	A	A
Calcium hydroxide	B	B	A	A	A	A	A	A
Carbon dioxide	A	A	A	A	A	A	A	A
Copper sulphate	A	A	A	A	A	A	A	A
Crude oil	C	C	A	A	A	A	A	A
Cyclohexanol	B	B	A	A	A	A	A	A
Cyklohexanon	C	C	B	B	B	B	B	B
Di-butyl phtalate	A	A	A	A	A	A	A	A
Ethyl ether	B	A	A	A	A	A	A	A
Ethylen	A	A	A	A	A	A	A	A
Ethylene glycol	B	B	A	A	A	A	A	A
Formic acid 10%	B	B	A	A	A	A	A	A
Glycerine	A	A	A	A	A	A	A	A
Hydraulic oil( mineral)	B	B	A	A	A	A	A	A
Hydrogen chloride dry	B	B	A	A	A	A	A	A
Hydrochlorid acid 20%	C	C	B	B	A	A	B	A
Chlorine dry	B	B	A	A	A	A	A	A
Chloroform	C	C	B	B	B	B	B	B
Iso-Octane	B	B	A	A	A	A	A	A
Kerosene	B	B	A	A	A	A	A	A
Methylene chloride	C	C	C	C	C	C	C	C
Natural gas	A	A	A	A	A	A	A	A
Nitric acid 20%	C	C	C	C	C	B	C	A
Nitrogen	A	A	A	A	A	A	A	A
Petrol	B	B	A	A	A	A	A	A
Petroleum	B	B	A	A	A	A	A	A
Phenol	C	C	C	C	C	C	C	B
Potable water	A	A	A	A	A	A	A	A
Potassium cyanide	B	B	A	A	A	A	A	A
Potassium iodide	A	A	A	A	A	A	A	A
Saturated steam	B	B	A	A	A	A	A	B
Silicon oil	B	B	A	A	A	A	A	A
Sodium carbonate	A	A	A	A	A	A	A	A
Sodium hydrogen carbonate	B	B	A	A	A	A	A	A
Sodium hydrogen sulphite	B	B	A	A	A	A	A	A
Sodium hydroxide	B	B	B	B	B	B	B	A
Sodium chloride	A	A	A	A	A	A	A	A
Sodium sulphate	A	A	A	A	A	A	A	A
Sugar	A	A	A	A	A	A	A	A
Sulphuric acid 65%	C	C	C	C	C	C	C	A
Tartaric acid	A	A	A	A	A	A	A	A
Tetrachlormethane	C	C	B	B	B	B	B	B
Toluene	C	C	A	A	A	A	A	A
Transformer oil	B	B	A	A	A	A	A	A
Turpentine	A	A	A	A	A	A	A	A
Xylene	B	B	A	A	A	A	A	A

A-recomended  
 B-suitability depends on conditions  
 C-not suitable

If another medium is applied please contact our technical department.

## Contact

TEMAC, a.s., 289 13 Zverinek, Czech Republic

www.temac.cz

Tel.: +420 325 550 243

Fax: +420 325 550 284

E-mail: snqsales@temac.cz

+420 325 550 246

+420 325 550 250

exp@temac.cz

Technical dept.:

+420 325 550 181

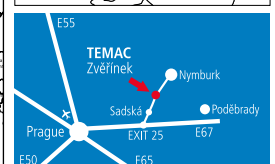
+420 325 550 284

tech.help@temac.cz



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AV1-08-2013 Temac

## GASKET AND SEALING TECHNOLOGY