



# Compressed Synthetic Fibre Jointing Sheets

## General data

Standard sheet size:

1,5 x 1,5 m

1,5 x 1,0 m

1,5 x 3,0 m

Another sheet sizes are available upon the customer request.

Size tolerance: ± 2 %

Standard thickness:

0,4 – 6,4 mm

with wire insertion:

0,8 – 6,4 mm

Thickness tolerance:

0,4 – 0,8 ± 0,1 mm

1,0 – 6,4 ± 10 %

### Surface:

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

### Wire insertion:

Majority of the styles can be supplied with a wire insertion.

## Technical data

Marking acc. to	DIN 28 091-2	FA-Z-12-0	FA-MA-1-0
Marking acc. to	ASTM F 104	F712 120 M4	F 712 111 M4
Max. temperature	peak	°C	210
	continual	°C	140
Max. pressure	Bar	40	60

## Typical parameters of 2 mm thick jointing

Density	DIN 28090-2	g/cm <sup>3</sup>	1,9	2,0
Compressibility	ASTM F 36J	%	11	10
Recovery min.	ASTM F 36J	%	50	45
Residual stress (16h/175°C)	DIN 52 913	≈ MPa	20	20
Gas leakage λ <sub>2,0</sub>	DIN 3535-6	≈ mg/(m.s)	0,1	0,06
Fluid resistance - thickness increase				
Oil IRM 903 (5h/150°C)	ASTM F 146	%	10	5
ASTM Fuel B (5h/23°C)	ASTM F 146	%	15	5

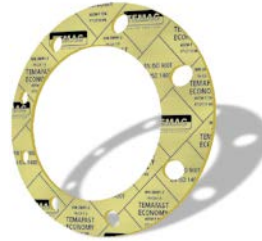
1 – suitable area (even for steam application)

2 – suitable extended area, technical advice is recommended

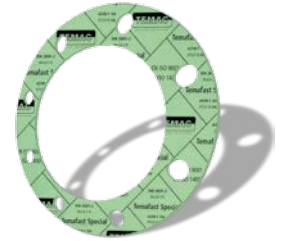
3 – for this area technical consultation is mandatory

Note: Maximum temperature and pressure values can not be used simultaneously.

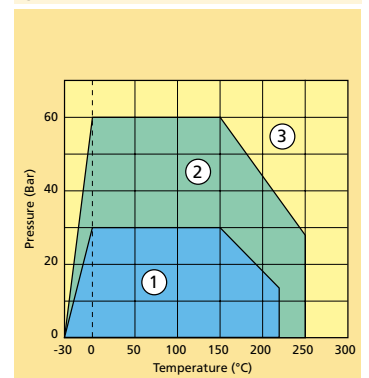
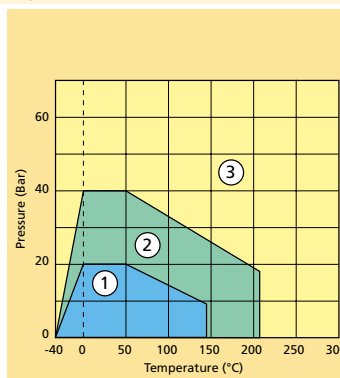
### TEMAFAST ECONOMY



### TEMAFAST SPECIAL



Colour	Yellow	Light green
Description	The economical version of jointing manufactured from mixture of organic fibres with NBR/SBR rubber binder.	Sealing material based on aramid fibers and other non-asbestos fillers bonded by high quality NBR.
Application	This grade can be used for wide range of applications throughout various types of industries at lower parameters.	This grade has a wide industrial usage at low duty applications in many different market segments.
Chemical resistance chart available upon request.		
Certification	DNV-GL, WRAS, PZH, GOST R	
Updated information can be found on our websites.		



**General data**

Standard sheet size:

- 1,5 x 1,5 m
- 1,5 x 1,0 m
- 1,5 x 3,0 m

Another sheet sizes are available upon the customer request.

Size tolerance: ± 2 %

Standard thickness:  
0,4 – 6,4 mm  
with wire insertion:  
0,8 – 6,4 mm

Thickness tolerance:  
0,4 – 0,8 ± 0,1 mm  
1,0 – 6,4 ± 10 %

**Surface:**

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

**Wire insertion:**

Majority of the styles can be supplied with a wire insertion.

**Technical data**

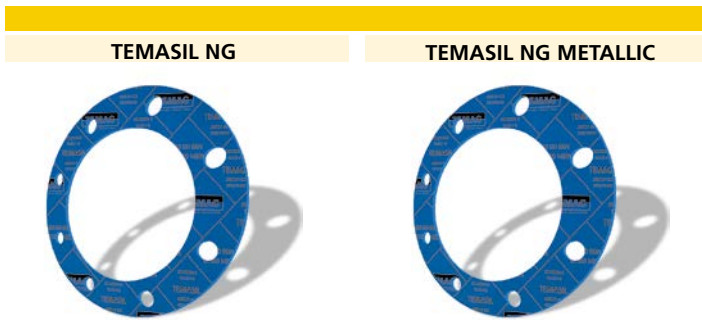
Marking acc. to	DIN 28 091-2	FA-MA-1-0	FA-MA-1-ST
Marking acc. to	ASTM F 104	F712 111 M5	F 712 111 M7
Max. temperature	peak °C	400	400
	continual °C	250 (steam 200)	250 (steam 200)
Max. pressure	Bar	100	120

**Typical parameters of 2 mm thick jointing**

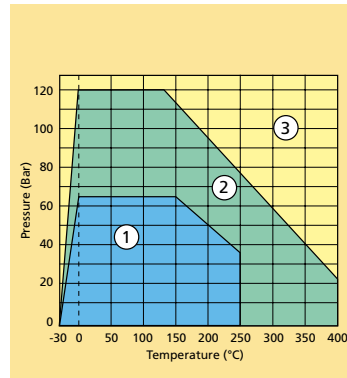
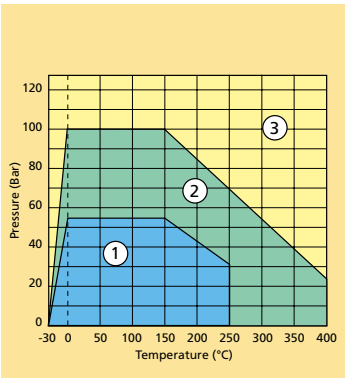
Density	DIN 28090-2	g/cm <sup>3</sup>	1,9	2,1
Compressibility	ASTM F 36J	%	7	7
Recovery min.	ASTM F 36J	%	50	50
Residual stress (16h/175°C)	DIN 52 913	≈ MPa	30	32
Gas leakage λ <sub>2,0</sub>	DIN 3535-6	≈ mg/(m.s)	0,06	0,08
Fluid resistance - thickness increase				
Oil IRM 903 (5h/150°C)	ASTM F 146	%	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
- 3 – for this area technical consultation is mandatory

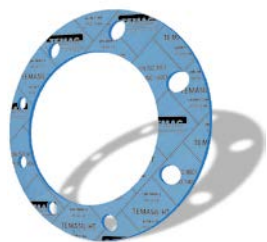
Note: Maximum temperature and pressure values can not be used simultaneously.



Colour	Blue	Blue
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.	The new generation of high quality material based on a blend of special temperature resisting fibres and other agents with NBR. This type is reinforced with a wire insertion as the standard.
Application	This general purpose jointing sheet is regardful of environment and can be used in a wide range of industries such as petrochemical, chemical, food and oil as well as engineering area.	This universal type of jointing sheet is enviromentally friendly and is supplied to various kinds of industries, such as petrochemical, chemical, food and oil as well as engineering area. This grade is made with wire insertion inside.
Chemical resistance chart available upon request.		
Certification	DNV-GL, DVGW, BAM, TA Luft, WRAS, PZH	
Updated information can be found on our websites.		



**TEMASIL HT**



**Light blue**

Superior performance compressed jointing material incorporating a blend of special heat resistant aramid fiber and high quality nitrile rubber binder. Completely fresh type of sheets suitable for elevated temperature and steam applications, exhibiting excellent gas sealability.

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 alkalis.

DNV-GL, DVGW, BAM, FIRE SAFE, GOST R

FA-MA-1-0 (ST)

F712 111 M6 (M7)

450

330 (steam 250)

120

**TEMAPLUS**



**Green**

High quality jointing material incorporating a blend of heat resistant aramid fibres with a special NBR rubber binding 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 alkalis.

DNV-GL, GOST R

FA-AM-1-0 (ST)

F712 111 M6 (M7)

450

250 (steam 200)

130

**TEMACARB**



**Black**

Premium quality carbon fibre reinforced material with a high quality nitrile rubber binder.

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.

GOST R

FA-CA-1-0 (ST)

F712 110 M6 (M7)

450

250 (steam 250)

100

**GRAFTEM**



**Black**

Non-asbestos gasketing sheet which combines graphite powder reinforced with aramid fibres and a low content of rubber binder system. Available in Economy version on request.

This jointing sheet with excellent mechanical properties is suitable for many applications including fuel, oil, coolants, hydrocarbons, gas and steam.

FA-AZ-1-0 (ST)

F 712 110 M6 (M7)

350

250 (steam 220)

100

1,9

9

50

32

0,04

1,9

10

50

32

0,03

1,9

9

50

32

0,05

1,9

8

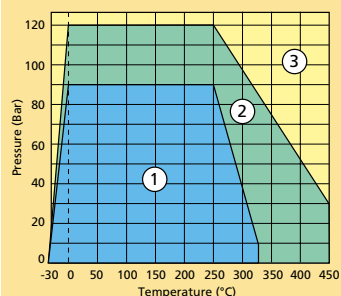
55

32

0,05

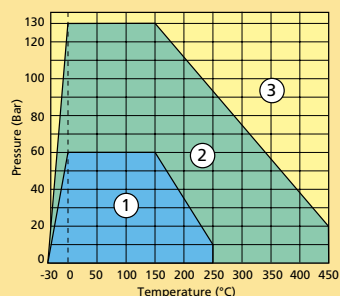
3

5



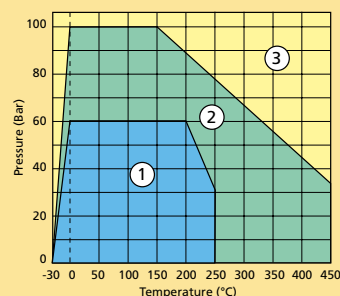
3

5



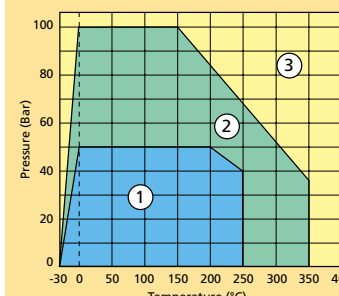
3

5



2

4



**General data**

Standard sheet size:

- 1,5 x 1,5 m
- 1,5 x 1,0 m
- 1,5 x 3,0 m

Another sheet sizes are available upon the customer request.

Size tolerance: ± 2 %

Standard thickness: 0,4 – 6,4 mm  
with wire insertion: 0,8 – 6,4 mm

Thickness tolerance: 0,4 – 0,8 ± 0,1 mm  
1,0 – 6,4 ± 10 %

**Surface:**

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

**Wire insertion:**

Majority of the styles can be supplied with a wire insertion.

**Technical data**

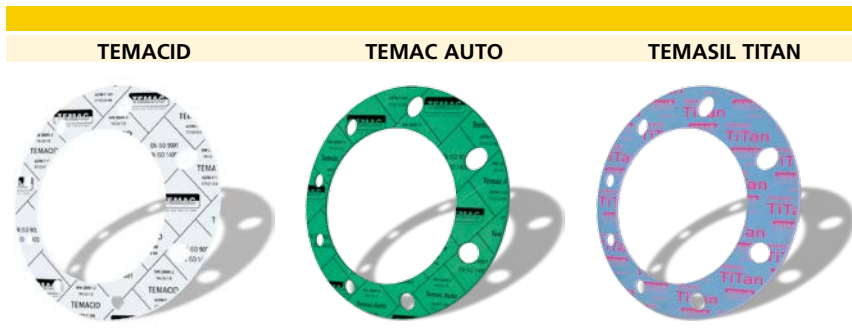
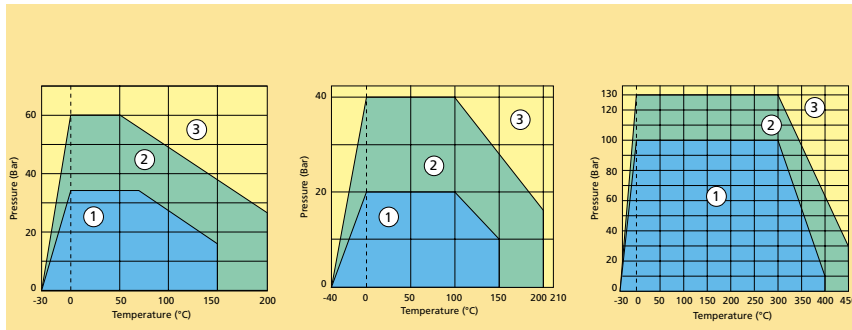
Marking acc. to	DIN 28 091-2	FA-A-4Z-0	FA-ZA-12-0	FA-MAZ-0 (ST)
Marking acc. to	ASTM F 104	F712 122 M5	F 712 230 M4	F 712 122 M5 (M7)
Max. temperature	peak	°C	200	450
	continual	°C	150 (steam 130)	400 (steam 350)
Max. pressure		Bar	60	40

**Typical parameters of 2 mm thick jointing**

Density	DIN 28090-2	g/cm <sup>3</sup>	1,9	1,8	1,9
Compressibility	ASTM F 36J	%	10	12	10
Recovery min.	ASTM F 36J	%	45	50	60
Residual stress (16h/175°C)	DIN 52 913	≈ MPa	20	20	32
Gas leakage λ <sub>2,0</sub>	DIN 3535-6	≈ mg/(m.s)	0,1	0,1	0,02
Fluid resistance - thickness increase					
Oil IRM 903 (5h/150°C)	ASTM F 146	%	8% Sulphuric acid (65%)	35	3
ASTM Fuel B (5h/23°C)	ASTM F 146	%	10% Nitric acid (40%)	25	5

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

Note: Maximum temperature and pressure values can not be used simultaneously.



Colour	Light grey	Green	Light blue
Description	Premium quality of compressed gasket sheet material based on a blend of fibres with a special acid resistant binding system.	Special sealing jointing sheet made from aramid and cellulose fibers binder with NBR/SBR mixed.	Unique sheet jointing material for high temperature applications, based upon a HNBR binding system. The product is formulated using the highest quality ingredients to ensure the outstanding properties of the finished gaskets.
Application	A chemical grade material suitable for most of acids & alkalis, oils, fuels and refrigerants.	Its composition is designed for the automotive industry. It is mainly used to seal the oil, water and coolant, piping wherein the limited load screws possible.	Temasil Titan is a universal type of gasketing materials suitable for oil, fuel, steam, gas, water, hydrocarbons, solutions of organic and anorganic acids, refrigerants as well as lubricant (grease).
Chemical resistance chart available upon request.			
Certification	GOST R		TA Luft
Updated information can be found on our websites.			



## Chemical resistance table

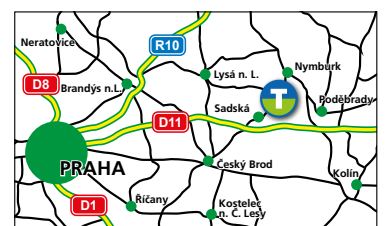
	Temafast Economy	Temafast	Temafast-special	Temasil NG	Temasil HT	Temaplus	Temacarb	Graftem Economy	Temacid	Temac Auto	Temasil Titan
Acetic acid 100%	B	B	B	A	A	A	A	A	B	A	
Acetone	C	B	B	B	B	B	B	A	B	A	
Acetylene	A	A	A	A	A	A	A	A	A	A	
Air	A	A	A	A	A	A	A	A	A	A	
Aluminium chloride	A	A	A	A	A	A	A	A	A	A	
Ammonia	B	B	B	B	B	B	B	B	B	A	
Ammonium hydrogenphospate	B	B	A	A	A	A	A	A	B	A	
Barium chloride	A	A	A	A	A	A	A	A	A	A	
Benzene	C	C	B	A	A	A	A	A	C	A	
Boric acid	A	A	A	A	A	A	A	A	A	A	
Calcium hydroxide	A	A	A	A	A	A	A	A	A	A	
Carbon dioxide	A	A	A	A	A	A	A	A	A	A	
Copper sulphate	A	A	A	A	A	A	A	A	A	A	
Crude oil	C	C	C	A	A	A	A	A	C	A	
Cyclohexanol	A	A	A	A	A	A	A	A	A	A	
Cyklohexanon	C	C	C	C	C	C	C	C	C	A	
Di-butyl phtalate	C	C	C	B	B	B	B	B	C	A	
Ethyl ether	B	B	B	A	A	A	A	B	B	A	
Ethylen	A	A	A	A	A	A	A	A	A	A	
Ethylene glycol	A	A	A	A	A	A	A	A	A	A	
Formic acid 10%	B	B	B	A	A	A	A	A	B	A	
Glycerine	A	A	A	A	A	A	A	A	A	A	
Hydraulic oil( mineral)	B	B	B	A	A	A	A	A	B	A	
Hydrogen chloride dry	C	C	C	B	B	B	B	B	C	A	
Hydrochlorid acid 20%	C	C	C	C	C	C	C	C	C	B	
Chlorine dry	C	C	C	B	B	A	A	B	C	A	
Chloroform	C	C	C	B	B	B	B	B	C	B	
Iso-Octane	B	B	B	A	A	A	A	A	B	A	
Kerosene	C	C	C	A	A	A	A	A	C	A	
Methylene chloride	C	C	C	C	C	C	C	C	C	C	
Natural gas	A	A	A	A	A	A	A	A	A	A	
Nitric acid 20%	C	C	C	C	C	C	C	C	B	C	
Nitrogen	A	A	A	A	A	A	A	A	A	A	
Petrol	C	C	C	A	A	A	A	A	C	A	
Petroleum	C	C	C	A	A	A	A	A	C	A	
Phenol	C	C	C	C	C	C	C	C	B	C	
Potable water	A	A	A	A	A	A	A	A	A	A	
Potassium cyanide	B	B	A	A	A	A	A	A	B	A	
Potassium iodide	A	A	A	A	A	A	A	A	A	A	
Saturated steam	C	C	B	B	A	A	A	B	C	A	
Silicon oil	A	A	A	A	A	A	A	A	A	A	
Sodium carbonate	A	A	A	A	A	A	A	A	A	A	
Sodium hydrogen carbonate	A	A	A	A	A	A	A	A	B	A	
Sodium hydrogen sulphite	B	B	A	A	A	A	A	A	A	A	
Sodium hydroxide 25 %	C	B	B	B	B	B	B	A	C	B	
Sodium chloride	A	A	A	A	A	A	A	A	A	A	
Sodium sulphate	B	B	A	A	A	A	A	A	B	A	
Sugar	A	A	A	A	A	A	A	A	A	A	
Sulphuric acid 65%	C	C	C	C	C	C	C	C	B	C	
Tartaric acid	A	A	A	A	A	A	A	A	A	A	
Tetrachlormethane	C	C	B	B	B	B	B	B	C	B	
Toluene	C	C	B	B	B	B	B	B	C	A	
Transformer oil	B	B	A	A	A	A	A	A	B	A	
Turpentine	C	C	B	A	A	A	A	A	C	A	
Xylene	C	C	B	A	A	A	A	A	A	A	

A – recommended  
 B – suitability depends on conditions  
 C – not suitable

If another medium is applied please contact our technical department.

## Contact

TEMAC, a.s., 289 13 Zvěřinek, Czech Republic  
**www.temac.cz, info@temac.cz**  
 Tel.: +420 325 550 246 E-mail: export@temac.cz  
 +420 325 550 171 sngsales@temac.cz  
 +420 325 550 109 eastsales@temac.cz  
 Technical dept.:  
 +420 325 550 181 tech.help@temac.cz



AV-1-11-2018 Temac



## GASKET AND SEALING TECHNOLOGY