

NON-ASBESTOS GASKETING MATERIAL

Compressed 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.

tolerance ± 2 %

Standard thickness:

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

with wire insertion

0,8; 1,0; 1,5; 2,0; 3,0; 4,0; 5,0 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 according DIN 28 091-2

Marking according ASTM F 104

Max. temperature* peak °C

continual °C

Max. pressure* Bar

TEMAFAST ECONOMY



TEMAFAST



Colour	Yellow	Red
Wire insertion	No	No
Description	The economic version of jointing manufactured from mixture of organic fibres with mixture NBR/SBR rubber binder.	Basic jointing manufactured from organic fibres with NBR binder.
Range usage	This grade has wide area usage in all sorts of industries at lower parameters.	This grade has wide industrial usage at lower medium temperature and pressure parameters.
Certification	Germanischer Lloyd KTW , GOST, PZH	Germanischer Lloyd KTW, PZH Poland, GOST

Marking according FA-Z-12-0

Marking according F712 120 M4

Max. temperature* peak °C 210

continual °C 140

Max. pressure* Bar 40

Marking according FA-MZ-1-0

Marking according F712 120 M4

Max. temperature* peak °C 210

continual °C 140

Max. pressure* Bar 40

Typical parameters of 2 mm thickness jointing

Density DIN 28090-2 g/cm³ 1,7-2,1

Compressibility ASTM F 36 % 12

Recovery ASTM F 36 % 50

Residual stress (175°C) DIN 52 913 ≈ MPa 20

Gas leakage λ_{2,0} DIN 3535-6/99 ≈ mg/(m*s) 0,1

Fluid resistance - thickness increase

Oil IRM 903 (5h/150°C) ASTM F 146 % 15

ASTM Fuel B (5h/23°C) ASTM F 146 % 15

1,6-1,9

18

50

20

0,1

5

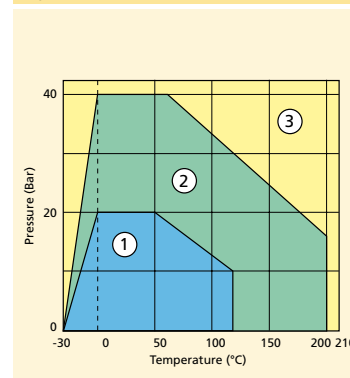
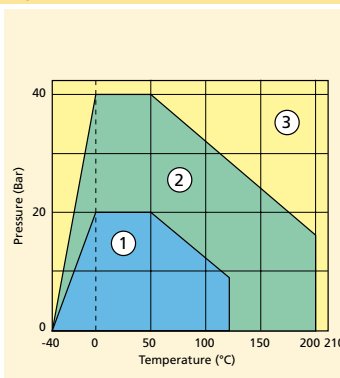
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1 – suitable area (even for steam application)

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.



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Max. temperature* peak °C

continual °C

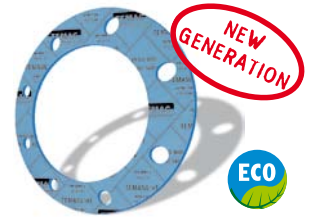
Max. pressure* Bar

Colour	Blue
Wire insertion	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.
Range usage	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.
Certification	PZH procedures are under process

TEMASIL - NEW GENERATION



TEMASIL HT



Colour	Light blue
Wire insertion	Yes
Description	Superior performance coppedressed 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.
Range usage	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	DVGW procedures are under process

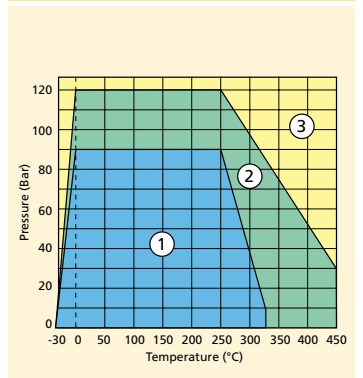
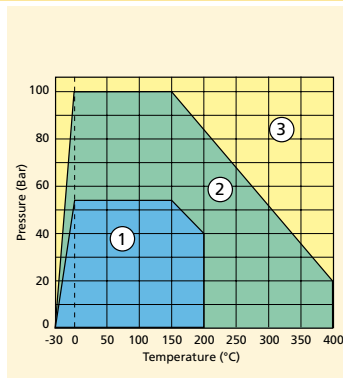
Typical parameters of 2 mm thickness jointing

Density	DIN 28090-2	g/cm ³	1,7-2,0
Compressibility	ASTM F 36	%	10
Recovery	ASTM F 36	%	50
Residual stress (175°C)	DIN 52 913	≈ MPa	30
Gas leakage λ _{2,0}	DIN 3535-6/99	≈ mg/(m*s)	0,06
Fluid resistance - thickness increase			
Oil IRM 903 (5h/150°C)	ASTM F 146	%	3
ASTM Fuel B (5h/23°C)	ASTM F 146	%	5

Density		g/cm ³	1,7-2,0
Compressibility		%	10
Recovery		%	55
Residual stress (175°C)		≈ MPa	32
Gas leakage λ _{2,0}		≈ mg/(m*s)	0,04
Fluid resistance - thickness increase			
Oil IRM 903 (5h/150°C)		%	3
ASTM Fuel B (5h/23°C)		%	5

- 1 – suitable area (even for steam application)
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- 3 – for this area technical consultation is mandatory

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



TEMAPLUS



Green

Yes

Superior performance jointing material incorporating a blend of special heat resistant aramid fibres with a high quality NBR binder.

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.

Germanischer Lloyd
UDT Poland, GOST

FA-AM-1-0 (ST)

F712 111 M6 (M7)

450

250

130

TEMACARB



Black

Yes

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

FA-CA-1-0 (ST)

F712 110 M6 (M7)

450

250 (steam 250)

100

GRAFTEM ECONOMY



Black

Yes

Economic non-asbestos fasketing sheet which combines graphite reinforced with aramid fibres and a low content of rubber binder system.

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

procedures are under process

FA-AZ-1-0 (ST)

F712 110 M5 (M7)

360

200 (steam 180)

80

TEMACID



Grey

No

Premium quality acid jointing gasket material based on a blend of fibres with a special binder system.

A chemical grade material suitable for most acids alkalis, oils, fuels and refrigerants.

GOST

FA-A-4Z-0

F712 122 M5

210

140

40

1,6-1,9

10

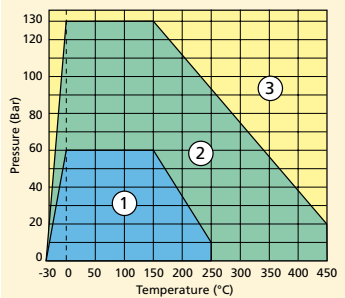
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32

0,03

3

5



1,5-1,9

9

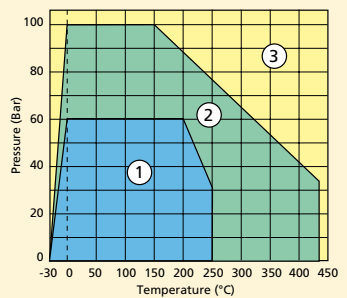
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32

0,05

3

5



1,8-2,1

5-15

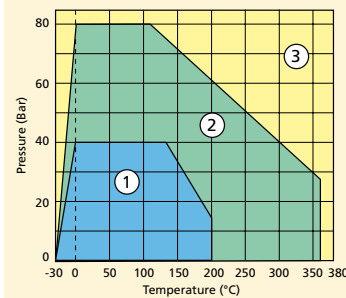
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30

0,1

5

10



1,7-2,1

10

50

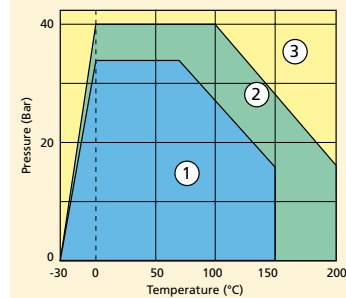
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0,1

16% Sulphuric acid (96%)

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.