

TEMASIL HT

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: $\pm 2 \%$

Standard thickness:

0,4 – 6,4 mm

with wire insertion:

0,8 – 6,4 mm

Thickness tolerance:

0,4 – 0,8 $\pm 0,1$ mm

1,0 – 6,4 $\pm 10 \%$

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 (ST) | |
| Marking acc. to | ASTM F 104 | F712 111 M6 (M7) | |
| Max. temperature | peak | °C | 450 |
| | continual | °C | 330 (steam 250) |
| Max. pressure | Bar | | 120 |

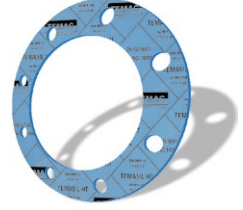
Typical parameters of 2 mm thick jointing

| | | | |
|---------------------------------------|-------------|-------------------|------|
| Density | DIN 28090-2 | g/cm ³ | 1,9 |
| Compressibility | ASTM F 36J | % | 9 |
| Recovery min. | ASTM F 36J | % | 50 |
| Residual stress (16h/175°C) | DIN 52 913 | ≈ MPa | 32 |
| Gas leakage $\lambda_{2,0}$ | DIN 3535-6 | ≈ mg/(m.s) | 0,04 |
| Fluid resistance - thickness increase | | | |
| Oil IRM 903 (5h/150°C) | ASTM F 146 | % | 3 |
| ASTM Fuel B (5h/23°C) | ASTM F 146 | % | 5 |

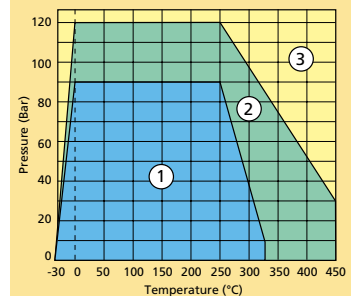
- 1 – suitable area (even for steam application)
- 2 – suitable extended area, technical advice is recommended
- 3 – for this area technical consultation is mandatory

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

TEMASIL HT



| | |
|---|---|
| Colour | Light blue |
| Description | 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. |
| Application | 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. |
| Chemical resistance chart available upon request. | |
| Certification | DNV-GL, DVGW, BAM, FIRE SAFE, GOST |
| Updated information can be found on our websites. | |



Chemical resistance table

| | Temafast Economy | Temafast | Temasil Nová Generace | 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 hydrogenphospate | 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-recommended

B-suitability depends on conditions

C-not suitable

If another medium is applied please contact our technical department.