



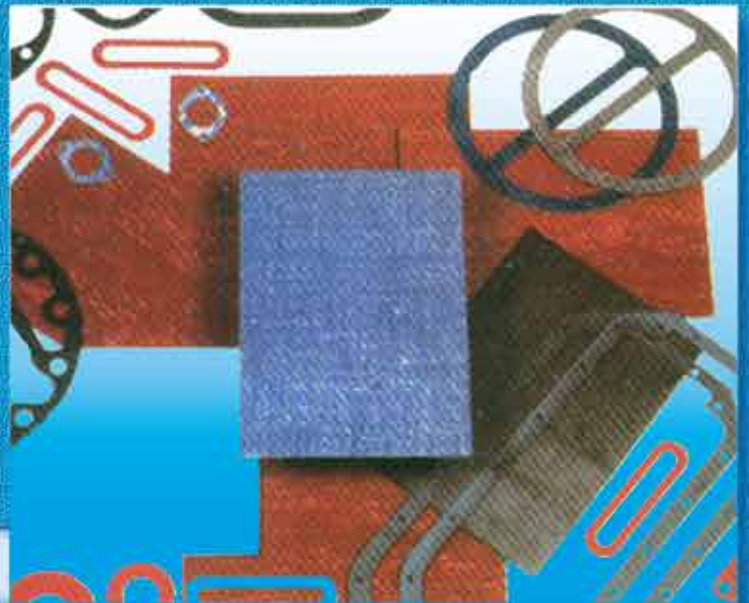
# TERMOGASKET

*sealing technology*

## ZAPTIVNI MATERIALI



Termopack TP-pletence  
(bezazbestne)



TermogasketTG-klingerit  
(bezazbestni)

**Tabela otpornosti bezazbestnih zaptivača na kiseline (kiselinska lista bezazbestnog klingerita)**

	TG NA 200	TG NA ARMIRANI	TG NA UNIVERZAL		TG NA 200	TG NA ARMIRANI	TG NA UNIVERZAL		TG NA 200	TG NA ARMIRANI	TG NA UNIVERZAL
Acetamide	●	●	●	Ethyl acetate	■	▼	■	Oleum	▼	▼	▼
Acetic acid 10%	●	●	●	Ethyl alcohol	●	●	●	Oxalic acid	■	■	■
Acetic acid 100%	●	●	●	Ethyl chloride	▼	■	■	Oxygen	●	▼	●
Acetic ester	■	■	■	Ethylene	●	■	●	Palmitic acid	●	■	●
Acetone	■	■	■	Ethylene glycol	●	●	●	Pentane	■	■	●
Acetylene	●	●	●	Formic acid 10%	●	■	●	Perchloroethylene	■	■	■
Adipic acid	●	●	●	Formic acid 85%	●	▼	●	Phenol	▼	▼	▼
Air	●	●	●	Formaldehyde	●	●	●	Phosphoric acid	●	■	●
Alum	●	●	●	Freon 12	■	■	●	Potassium acetate	●	●	●
Aluminium acetate	●	●	●	Freon 22	▼	▼	■	Potassium bicarbonate	●	●	●
Aluminium chlorate	●	■	●	Fuel oil	●	●	●	Potassium carbonate	●	■	●
Aluminium chloride	●	●	●	Gasoline	■	●	●	Potassium chloride	●	●	●
Ammonia	■	■	●	Glycerine	●	●	●	Potassium dichromate	●	●	●
Ammonium bicarbonate	●	■	●	Heptane	■	■	●	Potassium hydroxide	●	■	●
Ammonium chloride	●	■	●	Hydraulic oil (Mineral)	■	●	●	Potassium iodide	●	●	●
Ammonium hydroxide	●	■	●	Hydraulic oil (phosphate ester type)	■	■	■	Potassium nitrate	●	●	●
Amyl acetate	■	■	■	Hydraulic oil (glycol based)	●	●	●	Potassium permanganate	●	●	●
Aniline	▼	▼	▼	Hydrazine	●	■	●	Propane	■	■	●
Asphalt	●	●	●	Hydrochloric acid 20%	■	▼	■	Pyridine	▼	▼	▼
Barium chloride	●	●	●	Hydrochloric acid 36%	■	▼	▼	Salicylic acid	●	●	●
Benzene	■	■	●	Hydrofluoric acid 10%	▼	▼	▼	Silicone oil	●	■	●
Benzoic acid	●	●	●	Hydrofluoric acid 40%	▼	▼	▼	Soap	●	●	●
Boric acid	●	●	●	Hydrogen	●	■	●	Sodium aluminate	●	●	●
Borax	●	●	●	Isobutane	●	▼	●	Sodium bicarbonate	●	■	●
Butane	●	▼	●	Isooctane	■	●	●	Sodium bisulphite	●	●	●
Butyl alcohol	●	●	●	Isopropyl alcohol	●	●	●	Sodium carbonate	●	●	●
Butyric acid	●	●	●	Kerosene	●	■	●	Sodium chloride	●	●	●
Calcium chloride	●	●	●	Lead acetate	●	●	●	Sodium cyanide	●	■	●
Calcium hydroxide	●	●	●	Lead arsenate	●	●	●	Sodium hydroxide	■	■	■
Carbon disulphide	▼	▼	▼	Magnesium sulphate	●	●	●	Sodium sulphate	●	●	●
Carbon dioxide	●	●	●	Malic acid	●	●	●	Sodium sulphide	●	●	●
Chloroform	■	■	■	Methane	●	■	●	Starch	●	●	●
Chlorine, dry	■	▼	●	Methanol	●	●	●	Steam	■	●	●
Chlorine, wet	▼	▼	■	Methyl chloride	■	▼	■	Stearic acid	●	■	●
Chromic acid	▼	▼	■	Methylene dichloride	▼	▼	▼	Sugar	●	●	●
Citric acid	●	●	●	Methyl ethyl ketone	■	▼	■	Sulphuric acid 20%	▼	▼	■
Copper acetate	●	●	●	Milk	●	●	●	Sulphuric acid 96%	▼	▼	▼
Creosote	▼	▼	▼	Mineral oil type ASTM no. 1	●	●	●	Tar	●	●	●
Cresol	▼	▼	■	Naphtha	■	■	■	Tartaric acid	●	●	●
Cyclohexanol	●	■	●	Nitric acid 20%	▼	▼	■	Toluene	●	●	●
Cyclohexanone	▼	▼	■	Nitric acid 40%	▼	▼	■	Transformer oil	●	■	●
Decaline	■	■	●	Nitric acid 96%	▼	▼	▼	Trichlorethylene	■	■	■
Dibenzyl ether	▼	▼	▼	Nitrobenzene	▼	▼	▼	Water	●	●	●
Dimethyl formamide	▼	▼	▼	Nitrogen	●	●	●	White Spirit	■	●	●
Dowtherm	■	▼	■	Octane	■	●	●	Xylene	■	■	■
Ethane	●	■	●	Oleic acid	●	●	●				

● Preporučljivo  
 ■ Preporuka zavisi od uslova primene  
 ▼ Nije preporučljivo



## Klingerit bezazbestni

Tolerancije  $\pm 5\%$



TIP	TG NA 200	TG NA UNIVERZAL	TG NA WIRE REINFORCED (armirano grafitirani)
Boja	Crvena	Plava	Crna
Materijal izrade - baza	aramidna, mineralna vlakna i NRB	aramidna, mineralna vlakna i NRB	aramidna, karbonska mineralna vlakna, NRB/SBR i ojačana žicom
Dimenzije ploča mm	1500x1500 1500x2000 1500x5000	1500x1500 1500x2000 1500x5000	1500x1500 1500x2000 1500x5000
Debljine ploča mm	0,4-5	0,4-5	0,4-5
Max. Temperatura °C	250	400	450
Max. Pritisak BAR	50	100	140
Gustina g/m <sup>3</sup>	1,8	1,9	2,5
DIN	DIN 28091-2,FA-M21-0 ASTM F 104-F 712 120-M4	DIN 28091-2,FA-M21-0 ASTM F 104-F 712	DIN 28091-FA-M1ST ASTM F 104-F 712 111-M6 WIRE REINFORCED

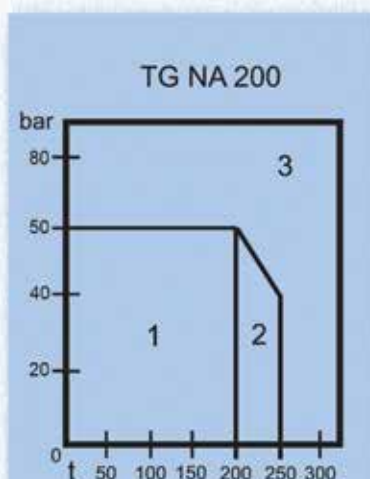
### Primena:

Zaptivanje parnih kotlova, parovoda i cevovoda, armatura i pumpi, i drugih spojeva gde se traži otpornost na temperature i visoke pritiske, a prisutni su mediji para, gasovi voda i ostali neagresivni mediji

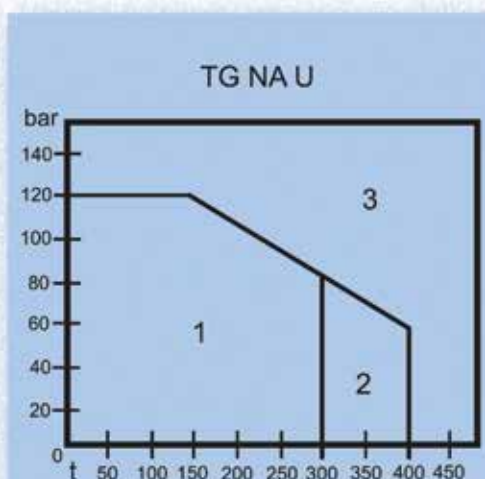
Zaptivanje u slučajevima gde se traži visoka otpornost na sve jake organske anorganske kiseline, lužine i otapala, ulja, goriva, masti, rastvarači sredstava za hlađenje.  
On je univerzalan za zaptivanje

Zaptivanje u slučajevima gde se traži visoka otpornost na pritiske i temperature, a prisutni su mediji kao kiseline, lužine, ulja, maziva, gasovi, petroleji i ostali agresivni mediji

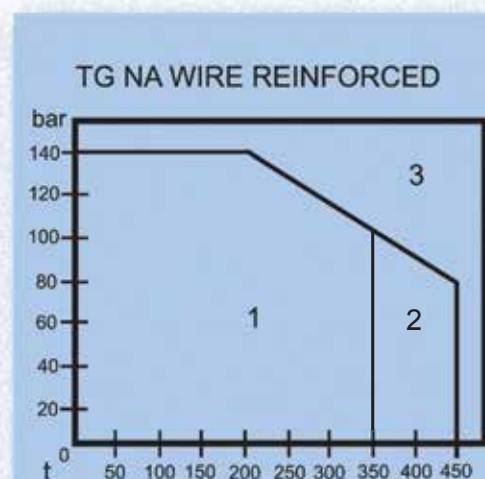
## pT dijagrami



1 - odgovarajuća primena  
2 - za uslove pod parom  
3 - limitirana primena



1 - odgovarajuća primena  
2 - za uslove pod parom  
3 - limitirana primena



1 - odgovarajuća primena  
2 - za uslove pod parom  
3 - limitirana primena



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Kompenzatori



Klingerit zaptivke



Manloh zaptivači



Pulvis zaptivač



Keramička vuna,  
papir i ploče



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