Promat

PROMAFORM® PROMAFELT®

PROMAFORM® are lightweight, rigid vacuum-formed ceramic fibre shaped parts and boards based on aluminium silicate fibres.

PROMAFELT® are soft vacuum-formed ceramic fibre boards based on aluminium silicate fibres.

ADVANTAGES AND PROPERTIES

- Excellent homogeneity and hardness over the whole wall thickness
- High mechanical strength
- Good dimensional stability after thermal application
- Low thermal conductivity
- Insensitive to thermal shocks
- Even distribution of shared fibre types in mixed fibre qualities
- Excellent machinability
- Various bulk densities on request

The lightweight homogeneous insulating material with high permanent temperature resistance, low thermal conductivity, high thermal shock resistance and chemical resistance offers economical application possibilities for technically ambitious high temperature applications.

WORKING AND PROCESSING

PROMAFORM® / PROMAFELT® can be worked extremely cleanly and accurately to size with all woodworking machines and tools.

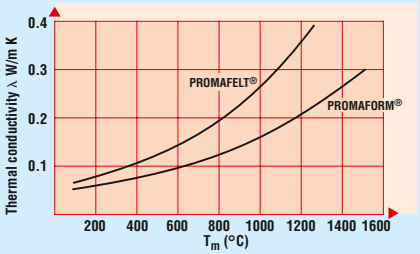
BONDING

Depending on the application, the ALSIFLEX® -bonding agents are suitable for bonding PROMAFORM® and PROMAFELT®.

AREAS OF APPLICATION

- On fire side for gas and oil firing with high gas velocities
- Carrier material for electrical heating spirals
- Extremely thermal shock resistant and temperature stable for plants run periodically
- Vibration-proof insulating material for all temperature ranges
- Melting and heat-holding crucibles, troughs, runners, semi-finished and finished parts
- Roller seals in industrial furnaces
- Flue gas ducts
- Ideal material for elastic joints
- Front- and back-up insulation of refractory linings
- Pipe-insulation

PROMAFORM® PROMAFELT® TO 1600°C



TECHNICAL DATA

Product name		PROMAFORM®			PROMAFELT®		
		1260	1430	1600	1260	1430	
Classification temperature		1260	1430	1600	1260	1430	°C
Bulk density ρ		260	240	130	230	230	kg/m³
Specific heat capacity c		1,13	1,13	1,13	1,05	1,05	kJ/kgK
Shrinkage		2,5	2,9	2,5	2,3	2,5	%
at testing temperature after 24h		1100	1400	1400	1100	1300	°C
Thermal conductivity λ							
	200°C	0,07	0,07	0,05	0,08	0,08	W/mK
	400°C	0,08	0,09	0,06	0,10	0,10	W/mK
	600°C	0,11	0,12	0,08	0,14	0,14	W/mK
	800°C	0,16	0,17	0,11	0,20	0,20	W/mK
	1000°C	0,22	0,25	0,18	-	-	W/mK
Chemical analysis	Al_2O_3	42,1	28,0	59,3	47,0	30,0	%
	SiO_2	52,5	52,0	36,6	53,0	54,0	%
	ZrO_2	-	14,0	-	-	16,0	%
Organic binder		5,5	5,5	-	7,5	7,5	%

Lengths and widths: ± 1,5 mm
Thicknesses: 3-10 mm ± 0,75 mm
15-50 mm ± 3,0 mm

STANDARD SIZES

Dimensions	Boards/ box	Boxes/ pallet
PROMAFORM® 1260°C		
1000 x 610 x 30 mm	3	36
1000 x 610 x 40 mm	2	36
1000 x 610 x 50 mm	2	36
1000 x 610 x 60 mm	1	36
1000 x 610 x 75 mm	1	36
PROMAFORM® 1430°C		
1000 x 610 x 30 mm	3	36
1000 x 610 x 40 mm	2	36
1000 x 610 x 50 mm	2	36
1000 x 610 x 60 mm	1	36
1000 x 610 x 75 mm	1	36
PROMAFELT® 1260°C		
1000 x 610 x 20 mm	5	36
1000 x 610 x 25 mm	4	36
1000 x 610 x 30 mm	3	36
1000 x 610 x 40 mm	2	36
1000 x 610 x 50 mm	2	36
1000 x 610 x 60 mm	1	36

Dimensions	Boards/ box	Boxes/ pallet
PROMAFORM® 1600°C		
1000 x 610 x 10 mm	10	36
1000 x 610 x 15 mm	6	36
1000 x 610 x 20 mm	5	36
1000 x 610 x 25 mm	4	36
1000 x 610 x 30 mm	3	36
1000 x 610 x 40 mm	2	36
1000 x 610 x 50 mm	2	36
1000 x 610 x 60 mm	1	36
1000 x 610 x 75 mm	1	36
PROMAFELT® 1430°C		
1000 x 610 x 6 mm	16	36
1000 x 610 x 10 mm	10	36
1000 x 610 x 12 mm	8	36
1000 x 610 x 15 mm	6	36
1000 x 610 x 20 mm	5	36
1000 x 610 x 25 mm	4	36
1000 x 610 x 30 mm	3	36
1000 x 610 x 40 mm	2	36
1000 x 610 x 50 mm	2	36
1000 x 610 x 60 mm	1	36

RCF have been classified as a category 2 carcinogen under EU directive 67/548/EC. Therefore avoid exposure and obtain special instructions before use. MSDS-sheets are available on request.

Promat contains the right to change without notice the properties and values of all products. The given technical values are obtained in specific conditions and are average and indicative. In case of any doubt if these properties and/or values are matching the application requirements, please contact Promat for advise.

Promat
High Temperature Insulation

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