

ALSIFLEX[®] (paper)



High temperature wool paper

ALSIFLEX[®] paper is a lightweight fleece based on high temperature wool.

ALSIFLEX[®]-1260 and -1430 paper are aluminium silicate wools.

ALSIFLEX[®]-1600 paper is a polycrystalline wool based on mullite and corund.

The organic binder content is up to 12%.

Technical data		-1260	-1430	-1600
Type				
Colour			white	
Bulk density	kg/m ³	200-400	240-280	130-170
Classification temperature	°C	1250	1400	1600
Tensile strength	kPa	> 350	> 350	> 90
Shrinkage	%	1250 °C - 24h: < 4	1400 °C - 24h: < 4	1600 °C - 24h: < 4
Specific heat capacity	kJ/kg K		1.08	
Thermal conductivity				
600 °C	W/m K	0.08	0.11	0.16
800 °C	W/m K	0.11	0.16	0.20
1000 °C	W/m K	0.17	0.21	0.24
Chemical analysis				
Al ₂ O ₃	%	48-50	48-58	< 90
SiO ₂	%	50-54	42-52	< 8
Fe ₂ O ₃	%	< 0.2	< 0.2	-
Alkaline	%	< 0.25	< 0.25	-
LOI	%	< 12	< 12	< 9

Delivery sizes		ALSIFLEX [®] -1260 (paper)		
Thickness	mm	1	2	3 / 4 / 5 / 6 / 7 / 8
Length	m	40	20	10
Width	mm		500 / 1000	

Delivery sizes		ALSIFLEX [®] -1430 (paper)		
Thickness	mm	1	2	3
Length	m	20	25	35
Width	mm	1000	1000	610

Delivery sizes		ALSIFLEX [®] -1600 (paper)		
Thickness	mm	1	2	3
Length	m		10-40	
Width	mm		500 / 1000	

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Properties & advantages

- lightweight and flexible
- low thermal conductivity and heat storage
- high thermal and chemical resistance
- high thermal shock resistance
- easy to work
- electrically non-conductive
- numerous delivery forms

Application areas

HEAVY INDUSTRY

- high temperature sealings
- expansion joints material
- outer insulation layer to the steel casing
- casting ladles and runners

Working & processing

ALSIFLEX[®] paper can be easily cut and processed with conventional tools. Suitable items are knives with serrated edge, band saws and punching machines.

Dust is produced during procession. Dust can be harmful to the health. Avoid contact with eyes and skin. Do not breathe in the dust. Dust should be removed by suction. The dust limits are to be adhered to. See product safety information sheet.

To bond ALSIFLEX[®] paper we recommend ALSIBLOCK[®]-D bonding agent.

Thermal conductivity

