ALSIFLEX®-1260 (blankets)

High temperature wool blankets

ALSIFLEX®-1260 is a high-temperature wool based on aluminium silicate.

The blankets are needled from both sides and produced in different thicknesses and bulk densities.

Technical data					
Type		**1260/65**	**1260/100**	**1260/130**	**1260/160**
Colour		white			
Bulk density	kg/m³	65	100	130	160
Classification temperature	°C	1250			
Shrinkage					
1250 °C – 24h	%	3.3			
Melting point	°C	1760			
Specific heat capacity	kJ/kg K	1.14			
Thermal conductivity					
400 °C	W/m K	0.12	0.11	0.09	0.09
600 °C	W/m K	0.18	0.14	0.12	0.11
800 °C	W/m K	0.27	0.22	0.18	0.16
1000 °C	W/m K	0.42	0.36	0.28	0.21
Chemical analysis					
Al_2O_3	%	42–47			
SiO_2	%	53–58			
$TiO_2 + Fe_2O_3$	%	< 0.20			
alkaline	%	< 0.25			
Mean fibre diameter	µm	3			

Delivery sizes (Production tolerances)							
Thickness	mm	6.4 (+2)	12.7 (+3)	19.1 (+4)	25.4 (+5)	38.1 (+5)	50.8 (+7.5)
Length	mm	5000 (+ 150)	14640 (+ 150)	9700 (+ 150)	7320 (+ 150)	4880 (+ 150)	3660 (+ 150)
Width*	mm	610 (+3)					

* Roll width 1220 mm on request

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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
- prefabricated building components and cut sections

Application areas

HEAVY INDUSTRY

ALSIFLEX® blankets are used for the termal insulation of high-temperature plants in numerous industries.
Examples:

- fibre linings in industrial furnaces in layered construction or module systems, such as bogie hearth furnaces, bell furnaces, forging furnaces, tunnel kilns, regenerative thermal oxidizer and regenerative afterburning plants
- expansion joint material
- thermal insulation of welded seams
- arch insulation of tunnel kilns and glass melting tanks

Due to the low bulk densities and the almost unlimited thermal shock resistance, ALSIFLEX® is used especially in plants that are only operated periodically.

Working & processing

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

When working and processing high temperature wool products, the Technical Regulations for Hazardous Materials (TRGS 558) must be observed.

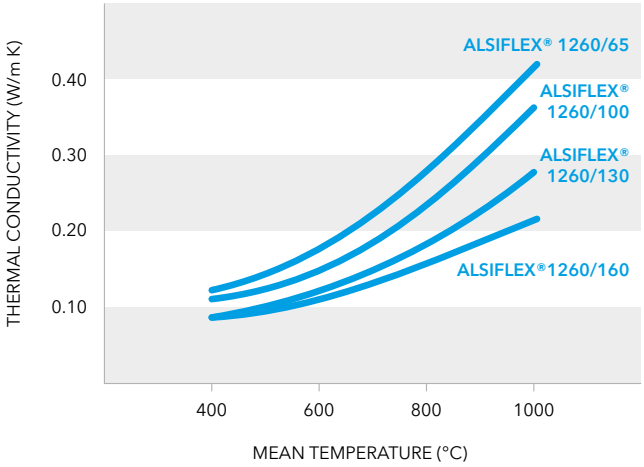
Dust is produced during procession. Dust can be harmful to the health. Avoid contact with eyes and skin. Do not breathe in the dust. Dust should be removed by suction. The dust limits are to be adhered to. See product safety information sheet.

For layered construction ALSIFLEX® blankets are attached to the metal walls with heat and scale-resistant metal pins and clips.

The Promat® systems ALSIPACK®, ALSIBLOCK®, ALSITHERM®, PROMACOMB® and PROMAWALL® are produced from ALSIFLEX®.

For gluing ALSIFLEX® blankets together we recommend ALSIBLOCK®-D bonding agent.

Thermal conductivity



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