

Papers and felts based on aluminium silicate wool

## **SILCAFELT**

130S, 140Z

**SILCAFELT 130S** is a flexible fibre paper with uniform structure and smooth surface.

**SILCAFELT 140Z** is a flexible fibre felt with high tensile strength.

**SILCAFELT – products** are made of aluminium silicate wool and special organic binders. The bonding agents escape at temperatures in excess of approximate 200 °C. These products are characterized by their high resilience, good temperature resistance and low thermal conductivity.

**SILCAFELT** is easy to work, cut and punch. Typical fields of application include high temperature gaskets, back-up insulations for the transport of liquid metals as well as expansion joints in refractory construction.

## Note

Our EC safety data sheet will inform you about the protective measures to be taken when handling and using aluminium silicate wool as well as the health risks.

## **SPECIAL FEATURES**

- resistant to high temperatures
- low thermal conductivity
- easy to machine
- good insulating properties

## **SILCAFELT**

130S, 140Z

SILCAFELT		Unit	1305	140Z
Upper application limit temperature		°C	1,250	1,400
Melting point		°C	1,800	1,740
Colour			white	white, beige
Bulk density		kg/m³	220 - 240	270
Breaking stress		kPa	> 350	> 50
Shrinkage after 24 h	1,250 °C 1,400 °C	%	< 4	- < 4
Thermal conductivity ${\pmb \lambda}$ at $t_{_m}$	600 °C 800 °C 1,000 °C 1,200 °C	W/(m K)	0.08 0.11 0.17	- 0.15 0.21 0.29
Chemical reference analysis	$SiO_2$ $AI_2O_3$ $ZrO_2$ $Fe_2O_3 + TiO_2$ Alkalis	%	50 - 54 46 - 50 - < 0.2 < 0.25	52 - 56 28 - 32 14 - 18 - < 0.25
Annealing loss		%	< 12	< 10
Dimensions				
Standard sizes	Delivery form		Rolls	Boards
	Length	mm	10,000	1,250
	Width	mm	610/1,000	1,000
	Thickness	mm	1/2/3/4/5/6/8/10	6/9/12/18/25

The properties mentioned are typical values obtained according to the listed methods. Product variations have to be taken into account. The data do not represent guaranteed properties and cannot be used for any warranty claim. Data are subject to technical modifications.

