Papers and felts based on aluminium silicate wool

SILCAFELT

130S, 126HD, 140Z

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

SILCAFELT 126HD and **140Z** are flexible fibre felts with a 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, 126HD, 140Z

SILCAFELT		Unit	130S	126HD	140Z
Upper application limit temperature		°C	1,250	1,250	1,400
Melting point		°C	1,800	1,800	1,740
Colour			white	white, beige	white, beige
Bulk density		kg/m³	220 - 240	200 - 300	200 - 300
Tensile strength		kPa	> 350	> 100	> 50
Shrinkage after 24 h	1.250 °C	%	< 4	< 4	-
	1,400 °C		-	-	< 4
Thermal conductivity λ at t_m	600 °C	W/(m K)	0.08	0.11	-
	800 °C		0.11	0.14	0.15
	1,000 °C		0.17	0.19	0.21
	1,200 °C		-	-	0.29
Chemical reference analysis	SiO_2	%	50 – 54	50 - 58	52 – 56
	Al_2O_3		46 – 50	42 - 50	28 – 32
	ZrO_2		-	-	14 – 18
	$Fe_2O_3 + TiO_2$		< 0.2	-	-
	Alkalien		< 0.25	< 0.25	< 0.25
Annealing loss		%	< 12	< 10	< 10
Dimensions					
Standard sizes	Delivery form		Rolls	Boards	Boards
	Length	mm	10,000	1,250	1,250
	Width	mm	610/1,000/1,260	1,000	1,000
	Thickness	mm	1/2/3/4/5/6/8/10	3/6/9/12/18/25	3/6/9/12/18/25

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.

silca refractory solutions

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