

Mineral wool insulation boards

Issue 22.08.2019

## SILCAMIN

75-10, 75-12, 75-15, 75-18

**SILCAMIN** is classified as being harmless and fulfils all the legal requirements of the German Hazardous Materials Order in the version valid from October, 2000. The product's bio-solubility has been confirmed by the German Institute for Toxicology and Aerosol Research. Accordingly **SILCAMIN** is not subject to specific labelling requirements and the notification requirement at processing is not required.

**SILCAMIN** insulation boards contain only a small amount of organic binders but this can escape at temperatures in excess of approx. 200 °C. Temporarily this can lead to a bad smell. Before using the product in closed systems and at operating temperatures in excess of 550 °C please consult our Technical Department.

The areas of application lie in the field of high-temperature thermal insulation in industrial furnaces, technical operating plant / systems, in the construction of dryers and apparatuses and in preventive fire protection.

### SPECIAL FEATURES

- low binder component
- good temperature resistance
- good mechanical strength
- good homogeneity
- simple to process
- manufactured without silicone oil additives
- good insulating properties
- non-combustible A1



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SILCAMIN		Method	Unit	75-10	75-12	75-15	75-18
Upper application limit temperature		EN 14706	°C	660	680	700	700
Melting point of the fibres		DIN 4102-17	°C	1,000	1,000	1,000	1,000
Nominal bulk density		EN1602	kg/m <sup>3</sup>	100	120	150	180
Fire behaviour		EN 13501-1		A1			
Thermal conductivity λ at t <sub>m</sub>	50 °C	EN 12667	W/(m K)	0.040	0.040	0.040	0.041
	100 °C			0.045	0.045	0.045	0.046
	200 °C			0.061	0.059	0.057	0.059
	300 °C			0.083	0.078	0.075	0.073
	400 °C			0.110	0.105	0.095	0.092
	500 °C			0.143	0.134	0.117	0.113
	600 °C			0.185	0.167	0.145	0.140
	650 °C			0.205	-	-	0.165
	700 °C	-	0.188	0.180	-		
Specific thermal capacity			kJ/(kg K)	0.84			
Chemical reference analysis	SiO <sub>2</sub>		%	33 - 43			
	Al <sub>2</sub> O <sub>3</sub>		%	15 - 23			
	CaO+MgO		%	28 - 34			
	Fe <sub>2</sub> O <sub>3</sub>		%	4 - 8			
Organic binder/annealing loss		EN 13820	%	approx. 2			
Silicone oil additives				none			
Hydrophobizing		EN 1609		hydrophobic			
Dimensions							
Standard sizes	Length x width		mm	1,200 x 600			
	Thickness		mm	30/40/50/60 (on enquiry up to 100)			
Loose mineral wool in sacks à 10 kg, special sizes and special thicknesses on enquiry.							

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.

