



**SILOBAS**, mechanically consolidated needle non-woven made of silica and basalt fibres, temperature resistant 750°C.

Technical properties						
Typ SIBA	SILOBAS - product types					
	6/160	10/150	12/150	15/150	20/150	25/170
Bulk density [kg/m <sup>3</sup> ] <sup>1)</sup>	160	150	150	150	150	170
Weight per area unit [g/m <sup>2</sup> ]	960	1.500	1.800	2.250	3.000	4.250
Tolerance [%]	±12	±12	±12	±12	±12	±12
Thickness [mm] <sup>3)</sup>	6 ± 1	10 ± 1	12 ± 1	15 ± 1	20 ± 2	25 ± 2
roll length [m ± %] <sup>2)</sup>	30 ± 1	20 ± 1	20 ± 1	15 ± 1	10 ± 1	10 ± 1
Filament diameter [µm]	> 5					
width [cm] <sup>2)</sup>	100 ± 1					

Physical properties	
Colour	tinged with braun
Smell	without
Bonding agent	without
Form	needle mat
Physiological behaviour	physiological safe
Toxicological behaviour	not dangerous
Thermal stability	750 °C
Behaviour in fire	not flammable
Vibration behaviour	resistant to vibration

Chemical properties		70% Basalt	30% Silica
Material specification, guide number [%] mixture 70% basalt fibres and 30% silica fibres	SiO <sub>2</sub>	52	min. 93,5 %
	Al <sub>2</sub> O <sub>3</sub>	17	4,0 % ± 0,4 %
	Na <sub>2</sub> O	n.b.	max. 0,8 %
	CaO	7	
	Fe <sub>2</sub> O <sub>3</sub>	9	
	MgO	5	
	TiO <sub>2</sub>	1	
	rest	9	

Other specifications	
Ecological information	ecological safe, possible to recycle
Safety measures	technical not necessary, personal not necessary
Make up	pasteboard tubes, 76 o.40 mm diameter inside
Storage	dry, protected against moisture

Thermal properties (bulk density 150 kg/m <sup>3</sup> )						
T <sub>m</sub> [°C]	100	200	300	400	500	600
WLF[W/mK]	0,04	0,05	0,06	0,08	0,11	0,15

The separate make up units of SILOBAS are packed in foil and to be transported in clean and covered vehicles or closed containers.

Laminating (30 to 100 µm Al-foil or stainless steel) or self adhesive equipment possible.

<sup>1)</sup> rated value, tolerance means 1 sigma

<sup>2)</sup> different width on inquiry

<sup>3)</sup> method of measurement: measuring instrument with 25 cm<sup>2</sup> round area

Revision number: 2

Revision date: 03.06.2005

