TECHNICAL DATA SHEET

biosil®
exhaust technology
biosoluble mineral wool

PRODUCT CHARACTERISTICS

Rolls, cuttings, pressed and moulded parts based on **biosoluble mineral wool** for a good **acoustic absorption** and **thermal insulation** in the **Exhaust Technology Area**.

TECHNICAL CHARACTERISTICS

Material **Colour**	biosoluble mineral wool nature	**Resistance to acid** (16% HCl / 23 °C / 10min) * (16% HCl / 23 °C / 240h) *	> 99,0 % ≥ 98,0 %
Transformation temperature (DIN ISO 7884-8)	654 °C	**Fasionaire** (PA 001) *	70 ± 15
Filament structure	glass (amorph)	**Flammability** (DIN 4102/part 4)	non-combustible A1 (loose wool)
Ignition loss (PA 007-2; analogous to DIN / ISO 1887) *	≤ 3,0 % pressed and moulded parts	**Biopersistance** (i.t.- test) **	< 40 days half life
Moisture content (PA 007-2; analogous to ISO 3344)	≤ 0,5 % loose wool	**Shot content** (PA 007-1) *	< 20%

CHEMICAL COMPOSITION	SiO_2	Al_2O_3	$Fe_2O_{3\ total}$	MgO+CaO	K_2O+Na_2O	MnO
Wt. - %	**60,2 ± 2**	**1,1 ± 1**	**5,5 ± 1,5**	**28,1 ± 2**	**5,0 ± 1,5**	**≤ 1,1**

THERMAL CONDUCTIVITY λ (DIN 52612-2)	W/m*K	0,034	0,042	0,063	0,093	0,135	0,189	0,259
(by density 120 kg/m³)	**℃**	**50**	**100**	**200**	**300**	**400**	**500**	**600**

ACOUSTIC ABSORPTION (DIN EN ISO 10534-2) (density 120 kg/m³, Fas. 65)															
Frequency (Hz)	125	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
α [%]	16	19	30	39	42	60	70	83	93	98	95	95	97	92	98

* DBW testing specifications ** intratrachialer test

The technical information provided to the current state of the technology and is accurate to the best of our knowledge.

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