



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	biosoluble mineral wool	Resistance to acid (16% HCl / 23 °C / 10min) *	> 99,0 %
Colour	nature	(16% HCl / 23 °C / 240h) *	≥ 98,0 %
Transformation temperature (DIN ISO 7884-8)	654 °C	Fasonaire (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 ₂ O ₃	Fe ₂ O ₃ total	MgO+CaO	K ₂ O+Na ₂ O	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/m ³)	°C	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

A technical rejection rate of 2-3 % cannot be avoided due to the manufacturing process and the associated partial agglomeration of binders. The above information does not constitute a guarantee of characteristics. Suitability for the respective application must be checked. Subject to change without notice.

DBW Advanced Fiber Technologies GmbH

Rodetal 40
37120 Bovenden
Deutschland

Technical contact person:

Matthias von Wensiersky
Tel. +49 (0)5594 801-11
matthias.wensiersky@dbw.de
www.dbw.de

Sales contact person:

Claudia Mahrt
Tel. +49 (0)5594 801-766
claudia.mahrt@dbw.de
www.dbw.de

