TECHNICAL DATA SHEET

BIOWOOL BULK, PROFIBER BULK 100, 115

PROFIBER BULK 100

Refractory fabric, made from electrically fused alumina and silica.

PROFIBER BULK 115 Refractory fibre made from electrically fused alumina, silica, and zirconium oxide.

BIOWOOL PLUS BULK

Biowool Bulk are produced from pure material by means of a new manufacturing technology. These products exhibit excellent thermal stability and retain their original soft fibre

quality, contain no binder, and give off no vapour or odour during first firing. Composed of a mass of randomly arranged, fluffy, refractory fibres of normal length.

FEATURES

- o Superior thermal stability: resistance to recrystallization at high temperatures
- Low thermal conductivity
- o Excellent resistance to sudden temperature changes
- o High chemical stability
- No binders or corrosives
- o Resilience at high temperatures
- Low heat capacity
- Superior sound absorption

Bulk packing density of refractory fibre may vary between 90 - 200 kg/m³, depending on the force applied during packing. It is difficult to achieve densities higher than 200 kg/m³ if packing is done manually.

APPLICATION

- o Suitable for vacuum forming
- o Textile production
- o Construction of expansion joints
- Chimney filling
- o Fire door stuffing

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		Profiber Bulk 100	Profiber Bulk 115	Biowool Bulk
Maximum usage temperature	°C	1260	1425	1200
Parameters measured at ambient conditions (23°C/50% RH)				
Colour		white	white	white
Specific weight	kg/dm ³	2,65	2,65	2,5
Fibre diameter (average)	micron	3,5	3,5	-
Performance at high temperatures				
Heat capacity				
540 °C	kJ/kg.K	1,05	1,05	-
1090 °C	kJ/kg.K	1,13	1,13	1,22
Chemical analysis				
SiO ₂	%	56	50	70-80
Al ₂ O ₃	%	44	34,9	-
CaO + MgO	%	0,5	0,09	18-25
Cr ₂ O ₃	%	-	-	-
ZrO ₂	%	-	15,2	-
$Fe_2O_3 + TiO_2$	%	0,15	0,15	-
$Na_2O + K_2O$	%	0,1	0,1	-

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