



## 4AS.019 Biosoluble Fibre Felt

### Applications

- Chimney, furnace and pipe insulation
- Heating and furnace lining
- Heat shield
- Component in the manufacture of thermal protection

### Overview

Biosoluble fibres felts' composition excludes all carcinogenic classification as per Q in directive 97/69 EC, unlike pure silica and silicate fibres. Biosoluble fibres felts are an ideal solution to replace ceramic fibres. Biosoluble fibres dissolve in bodily fluids such as those found in the pulmonary alveoli. They are less biopersistent, meaning they are eliminated more quickly by the body while maintaining their excellent thermal insulation and fire protection qualities.

Biosoluble fibre felts are obtained from long fibres of alkaline earth silicate. With high thermal stability, they retain a flexible fibrous structure up to a temperature of 1,200 °C. Their high-temperature insulation performance is remarkable.

This range of product contains no binders or lubricants and emits no smoke or odor when heated. Biosoluble fibre felts are flexible and easy to cut or install. Biosoluble fibre blankets are available laminated with an aluminum film to improve the thermal properties of the sheets.

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.

Final Advanced Materials Sàrl  
4 avenue de Strasbourg  
68350 Didenheim – France  
Tel : +33 (0) 3 67 78 78 78

Final Advanced Materials GmbH  
Basler Strasse 115  
79115 Freiburg – Deutschland  
Tel: + 49 (0) 761 47 87 336

### Technical Data

Property		Unit	Biosoluble Fibre Felt	
Density		kg/m <sup>3</sup>	64	80
Tensile Resistance		kPa	75	75
Linear Shrinkage 24 hrs at 1,200 °C		%	1	1
Operating Temperature		°C	1,000	1,000
Peak Temperature		°C	1,200	1,200
Thermal Conductivity	at 200 °C	W.m <sup>-1</sup> .K <sup>-1</sup>	0.06	0.06
	at 400 °C		0.11	0.09
	at 600 °C		0.18	0.15
	at 800 °C		0.29	0.24
	at 1,000 °C		0.42	0.36

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## Biosoluble Fibre Felt

### Technical Data

Property		Unit	Biosoluble Fibre Felt	
Density		kg/m <sup>3</sup>	96	128
Tensile Resistance		kPa	75	75
Linear Shrinkage 24 hrs at 1,200 °C		%	1	1
Operating Temperature		°C	1,000	1,000
Peak Temperature		°C	1,200	1,200
Thermal Conductivity	at 200 °C	W.m <sup>-1</sup> .K <sup>-1</sup>	0.05	0.05
	at 400 °C		0.09	0.08
	at 600 °C		0.14	0.12
	at 800 °C		0.21	0.18
	at 1,000 °C		0.29	0.25

Other dimensions are available on request.

Biosoluble fibre felts are also available with 96 kg/m<sup>3</sup> density. Other coating such as aluminum coating are produced only on request.

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Property	Unit	96 kg/m <sup>3</sup> Density			
Item N°: 210-SWPL96/		06	13	25	50
Thickness	mm	6	13	25	50
Width	mm	610	610	610	610
Length	m	5.5 (x4)	14.5	7.3	3.6

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