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Product data sheet – AluCoat – AluBas.NW180

ALUMINIUM COATED BASALT FIBRE NEEDLE MAT

Physical properties	**Unit**	**Value**	
Area weight	g/m²	700	1000
Filament density	g/cm³	2.6	
Monofilament diameter	µm	23 - 28	
Filaments/tex	-	1	
Fibre/Metal volume ratio	Vol. - %	50/50	
Moisture content	Mass - %	< 0,15	
Loss on ignition	Mass - %	2	
Thickness	mm	6	6
Width	cm	110	
Thermal properties			
Melting temperature	°C	660	
Working temperature under load	°C	< 400	
Other properties			
Sizing	-	Silan based	Compatibility: ++ PA, Epoxy + PE, PP
Carbon footprint	$CO_{2\text{-eq}}$/kg	7.7	
Storage conditions	-	Dry, moisture-protected place. The shelf life is not limited	

The values in the data sheet apply only to this specific yarn. The data listed here is within the normal range of product properties but should not be used to establish specification limits nor used alone as a basis for design. The underlying tests were conducted at standard environment of 20 °C and 60 % humidity.

This information and our technical application advice - whether verbal, written or by way of trials - are given to the best of our knowledge, but are deemed to be non-binding advice only, also with regards to any third-party property rights. Our advice does not exempt you from verifying the information provided - especially in our safety data sheets and technical information - and to test our products as to their suitability for the intended processes and purposes. The application, use and processing of our products and the products manufactured by you on the basis of our application advice are beyond our control and are, therefore, exclusively your own responsibility. The sale of our products and our advice are subject to our General Terms and Conditions of Sale and Delivery as amended from time to time.

Caution: Do not use this product for medical applications that require permanent implantation in the human body.

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Product data sheet – AluCoat – AluBas.NW180

ALUMINIUM COATED BASALT FIBRE WET LAID NON-WOVEN

Physical properties	**Unit**	**Value**	
Area weight	g/m²	80	100
Fibre density	g/cm³	2.6	
Monofilament diameter	µm	23 - 28	
Fibre/Metal volume ratio	Vol. - %	50/50	
Moisture content	Mass - %	< 0,15	
Binder content	Mass - %	3	
Thickness	mm	0,78	0,89
Width	cm	60	
Thermal properties			
Melting temperature	°C	660	
Working temperature under load	°C	< 400	
Other properties			
Sizing	-	Silan based;	Compatibility: ++ PA, Epoxy + PE, PP
Carbon footprint	$CO_{2\text{-eq}}$/kg	7.7	
Storage conditions	-	Dry, moisture-protected place. The shelf life is not limited	

The values in the data sheet apply only to this specific yarn. The data listed here is within the normal range of product properties but should not be used to establish specification limits nor used alone as a basis for design. The underlying tests were conducted at standard environment of 20 °C and 60 % humidity.

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