

## Application

**FIBASIL®** C-glass surface tissues have been specifically designed and developed for use in the GRP industry, to reinforce and control the thickness of the resin rich layer at the surface of the laminate. The resulting improvements in surface finish, impact and abrasion resistance, and excellent chemical resistance, ultimately prevent the ingress of corrosive elements into the vulnerable body of the laminate, thus enhancing the quality and durability of the finished part.



## Technical Data

Style	FIBASIL® LFP SURFACE TISSUES		FIBASIL® HFP SURFACE TISSUES	
	LFP: Light Fibre Plain - Small Diameter Fibres, Standard Porosity, Standard Wet-Out Characteristics		HFP: Heavy Fibre Plain - Large Diameter Fibres, Improved Porosity, Rapid Wet-Out, Less Air Entrapment	
Recommended application	Open Mold, Hand-Lay	Closed Mold, Mechanical Processes	Open Mold, Hand-Lay	Closed Mold, Mechanical Processes
<b>Product code</b>	<b>Genmat 30 LFP</b>	<b>Mechamat 30 LFP</b>	<b>Genmat (12 mil)</b>	<b>Mechamat (12 mil)</b>
Glass type	C (chemically resistant)	C (chemically resistant)	C (chemically resistant)	C (chemically resistant)
Fibre diam (microns)	12±1 µ	12±1 µ	16±1 µ	16±1 µ
Fibre length	Continuous	Continuous	Continuous	Continuous
Binder content	6-8% by mass	9-11% by mass	6-8% by mass	6-8% by mass
Binder solubility in styrene	Easily Soluble	Hardly Soluble	Easily Soluble	Hardly Soluble
Mass	30 ± 3 g/m <sup>2</sup>	30 ± 3 g/m <sup>2</sup>	30 ± 3 g/m <sup>2</sup>	30 ± 3 g/m <sup>2</sup>
Nominal thickness	0.3 mm (12 mil)	0.3 mm (12 mil)	0.3 mm (12 mil)	0.3 mm (12 mil)
Roll width - standard	1000±2 mm	1000±2 mm	1000±2 mm	1000±2 mm
- minimum	100 mm	70 mm	70 mm	70 mm
- maximum	2000 mm	2000 mm	2000 mm	2000 mm
Standard roll length	250±1 m	250±1 m	250±1 m	250±1 m
Resin absorption	270 g/m <sup>2</sup>	270 g/m <sup>2</sup>	270 g/m <sup>2</sup>	330 g/m <sup>2</sup>
<b>Product code</b>	<b>Genmat 25 LFP</b>	<b>Mechamat 25 LFP</b>	<b>Genmat (10 mil)</b>	
Glass type	C (chemically resistant)	C (chemically resistant)	C (chemically resistant)	
Fibre diam (microns)	12±1 µ	12±1 µ	16±1 µ	
Fibre length	Continuous	Continuous	Continuous	
Binder content	6-8% by mass	13-17% by mass	6-8% by mass	
Binder solubility in styrene	Easily Soluble	Hardly Soluble	Easily Soluble	
Mass	26 ± 2 g/m <sup>2</sup>	26 ± 3 g/m <sup>2</sup>	25 ± 2 g/m <sup>2</sup>	
Nominal thickness	0.25 mm (10 mil)	0.25 mm (10 mil)	0.25 mm (10 mil)	
Roll width - standard	1000±2 mm	1000±2 mm	1000±2 mm	
- minimum	150 mm	100 mm	150 mm	
- maximum	2000 mm	2000 mm	2000 mm	
Standard roll length (m)	300±1.5 m	300±1.5 m	300±1.5 m	
Resin absorption	230 g/m <sup>2</sup>	230 g/m <sup>2</sup>	270 g/m <sup>2</sup>	
<b>Product code</b>	<b>Genmat 22 LFP</b>	<b>Mechamat 22 LFP</b>	<b>NOTES:</b>	
Glass type	C (chemically resistant)	C (chemically resistant)	All FIBASIL® surface tissues are made from chemically resistant glass conforming to DIN 12111, Hydrolytic Class III, DIN 12116 - Acid Class I, DIN 52322 Alkali Class II.  FIBASIL® continuous fibre tissues have improved conformability and wet-out characteristics leading to less air entrapment during the application process in complex molds. In addition the resin to glass ratio is improved using HFP tissues resulting in a higher resin content for the same weight of tissue.  Many other variations of FIBASIL® surface tissues are available on request.	
Fibre diam (microns)	12±1 µ	12±1 µ		
Fibre length	Continuous	Continuous		
Binder content	6-8% by mass	13-17% by mass		
Binder solubility in styrene	Easily Soluble	Hardly Soluble		
Mass	23 ± 2 g/m <sup>2</sup>	23 ± 2 g/m <sup>2</sup>		
Nominal thickness	0.2 mm (8 mil)	0.2 mm (8 mil)		
Roll width - standard	1000±2 mm	1000±2 mm		
- minimum	200 mm	150 mm		
- maximum	2000 mm	2000 mm		
Standard roll length	300±1.5 m	300±1.5 m		
Resin absorption	200 g/m <sup>2</sup>	200 g/m <sup>2</sup>		

### Notes

1. Store in cool, dry conditions.
2. The customer receiving the product shall be solely responsible as to the suitability of the product for the particular end use.
3. These specifications are subject to change by mutual agreement at the discretion of the company.
4. All goods are sold in terms of our Standard Conditions of Sale.
5. Rolls with a length of 200m and up can have a maximum of one splice clearly marked.