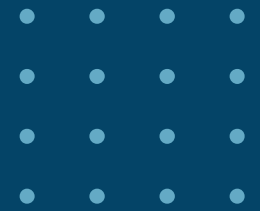


SUGU FABRICS & LINING





NEEDLE PUNCH TECHNOLOGY— ADVANCED MATERIAL

Flammability test: ISO 6941

1	Meta-aramid/Preox (60/40)	No sign of melting, dripping. No after flame and no afterglow	Level 4
2	FR viscose /Meta-aramid (60/40)	No sign of melting, dripping. No after flame and no afterglow	Level 4
3	FR viscose/Para-aramid (60/40)	No sign of melting, dripping. No after flame and no afterglow	Level 4
4	FR viscose/Para-aramid/low-melt (50/34/16)	No sign of melting, dripping. No after flame and no afterglow	Level 4

Contact heat: ISO 12127-part 1 @ 100°C

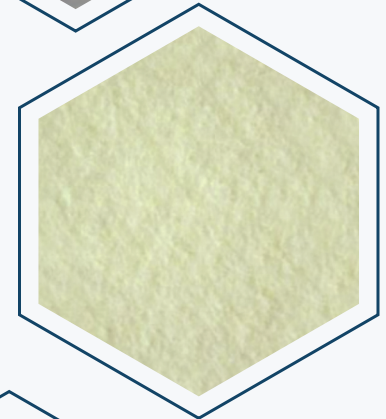
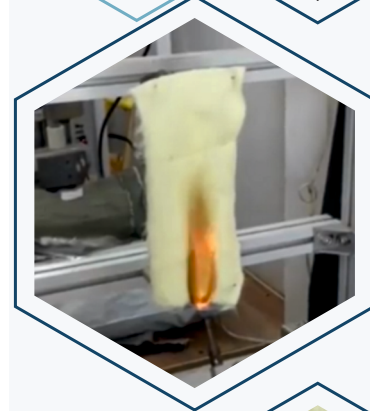
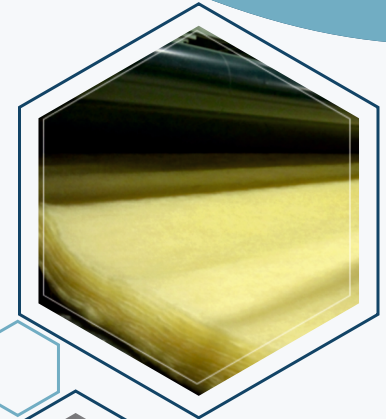
Meta-aramid/Preox (60/40)		FR viscose /Meta-aramid (60/40)		FR viscose/Para-aramid (60/40)		FR viscose/Para-aramid/low-melt (50/34/16)	
GSM (g/m2)	Performance level (s)	GSM (g/m2)	Performance level (s)	GSM (g/m2)	Performance level (s)	GSM (g/m2)	Performance level (s)
100	32.8	100	22.5	90	22.9	110	25.9
120	38.1	115	32.9				
125	43.8	140	36.5				
130	47.2	160	40.9				
140	55	180	43.1				
170	64						

All samples passed level 1 as Threshold time was ≥ 15 s at 100°C

Radiant heat: ISO 6942 @ 20 KW/m2

Meta-aramid/Preox (60/40)		FR viscose /Meta-aramid (60/40)		FR viscose/Para-aramid (60/40)		FR viscose/Para-aramid/low-melt (50/34/16)	
GSM (g/m2)	Performance level (s)	GSM (g/m2)	Performance level (s)	GSM (g/m2)	Performance level (s)	GSM (g/m2)	Performance level (s)
100	67	100	60	90	73	110	85
140	78	140	72				
170	89	180	93				

All samples passed level 3 as heat transmission index time ≥ 50 s and < 95 s



After Treatment Capabilities

- Calendaring
- Padding & Oven
- Lamination-With Nonwoven/Fabric, With release paper, Membrane, Aluminized film.

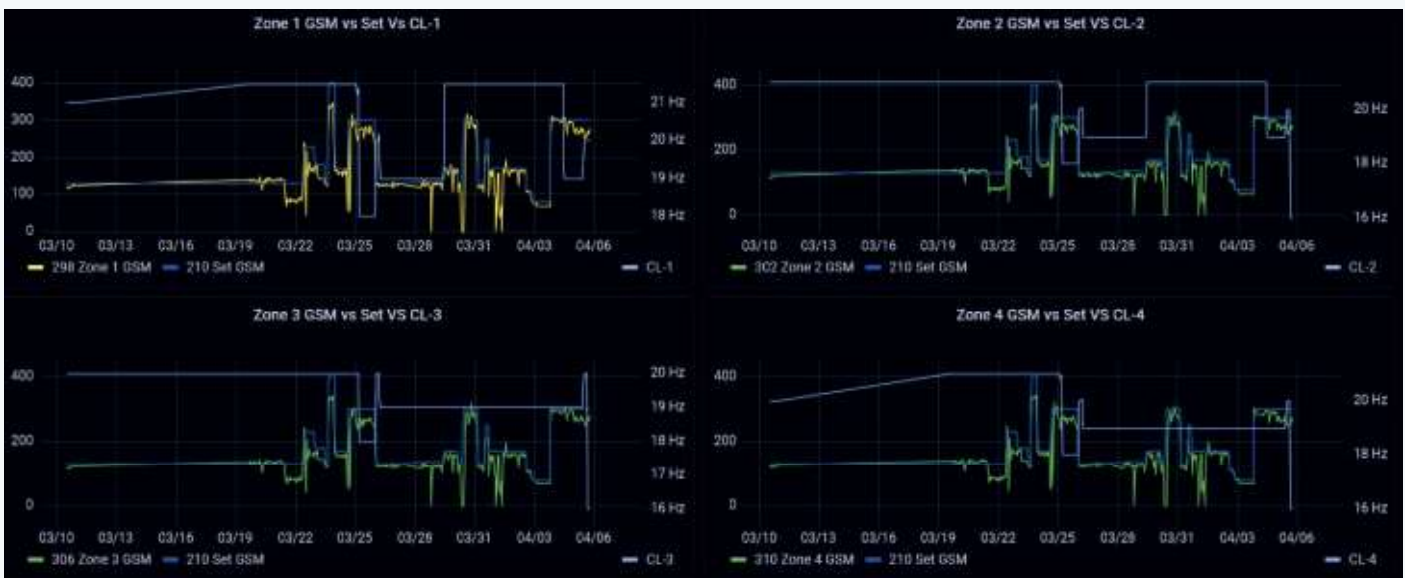
Final Converting

- Short rolls converting-25 running meters
- Individual width assembly-40 mm-3200 mm
- Different Shapes: CNC Cutter, Hydraulic Press



How do we do it?

Production is professionally managed as per industry 4.0 standards. The human resource is also placed out as per industry 4.0 standards starting from the managers, the shift in charge, machine operators and workers assisted by a maintenance team.



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