

Keywords: [Needle punched felts](#), [PPS needle felt](#), [Acrylic Needle Felt](#), [PET antistatic felt](#), [Homopolymer acrylic felt](#), [P84 Needle Felt](#), [Anti-static needle felt](#), [PTFE Needle Felt](#), [Aramid needle felt](#), [Polyester needle punched felt](#), [Fiberglass blending needle felt](#), [Middle temperature needle felt](#), [Heat-resistance Needle Felts](#)

China Sunrise Machinery – Needle punched felts

<http://www.air-slide-fabric.com/NeedlePunchedFelt/>

86-513-88820117

1. Specification for Polyester needle punched felts:

Fibre Composition	Polyester staple fiber	
Scrim Composition	Polyester filament	
Weight	500	g/m2
Thickness	1.9	mm
Mean Air Permeability	9-12	m3/m2/min @ 12.7mmH2O
Breaking Strength-CD (warp)	≥1000	N/5x20cm
Breaking Strength-MD (weft)	≥1300	N/5x20cm
Breaking Elongation-CD	<30	%
Breaking Elongation-MD	<50	%
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continuous Operating Temperature	130	°C
Recommended Short-term Operating Temperature	150	°C
Finishing	Singeing, calendering, heat setting treatment	

2. PET antistatic needle punched felts:

Fibre Composition	polyester staple fibre/Conductive fiber	
Scrim Composition	Polyester filament	
Weight	500	g/m ²
Thickness	1.9	mm
Mean Air Permeability	9-12	m ³ /m ² /min@12.7mmH ₂ O
Breaking Strength-CD (warp)	≥1000	N/5x20cm
Breaking Strength-MD (weft)	≥1300	N/5x20cm
Breaking Elongation-CD	<30	%
Breaking Elongation-MD	<50	%
Surface Resistance	<10 ¹⁰	Ω
Volume Resistance	<10 ⁹	Ω
Friction Potential	<500	V
Surface Charge Density	<7	μC/m ²
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continuous Operating Temperature	130	°C
Recommended Short-term Operating Temperature	150	°C
Finishing	Singeing, calendering, heat setting treatment	

3. Specification for PPS needle punched felts:

Fibre Composition	PPS staple fiber	
Scrim Composition	PTFE	
Weight	550	g/m ²
Thickness	1.8	mm
Mean Air Permeability	8-110	m ³ /m ² /min@12.7mmH ₂ O
Breaking Strength-CD (warp)	≥700	N/5x20cm
Breaking Strength-MD (weft)	≥1000	N/5x20cm
Breaking Elongation-CD	<25	%
Breaking Elongation-MD	<45	%
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continuous Operating Temperature	160	°C
Recommended Short-term Operating Temperature	190	°C
Finishing	Singeing, calendaring, heat setting, PTFE impregnation treatment	

4. Specification for P84 needle punched felts

Fibre Composition	P84 needle felt	
Scrim Composition	P84 needle felt	
Weight	500	g/m ²
Thickness	2.0	mm
Mean Air Permeability	2-5	m ³ /m ² /min@12.7mmH ₂ O
Breaking Strength-CD (warp)	≥600	N/5x20cm
Breaking Strength-MD (weft)	≥1000	N/5x20cm
Breaking Elongation-CD	<35	%
Breaking Elongation-MD	<35	%
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continuous Operating Temperature	260	°C
Recommended Short-term Operating Temperature	280	°C
Finishing	Heat setting, singeing, calendering can also be covered	

5. Specification Fiberglass Blending needle punched felts:

Fibre Composition	Glass fiber/ High temperature fiber	
Scrim Composition	E-glass fiber	
Weight	>900	g/m ²
Thickness	2.50	mm
Mean Air Permeability	8-10	m ³ /m ² /min@12.7mmH ₂ O
Breaking Strength-CD (warp)	>1800	N/5x20cm
Breaking Strength-MD (weft)	>1800	N/5x20cm
Breaking Elongation-CD	<10	%
Breaking Elongation-MD	<10	%
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continuous Operating Temperature	240	°C
Recommended Short-term Operating Temperature	260	°C
Finishing		

6. Specification for needle punched felts:

Fibre Composition	Acrylic fiber	
Scrim Composition	Acrylic staple fiber	
Weight	500	g/m2
Thickness	2.1	mm
Mean Air Permeability	2-5	m3/m2/min@12.7mmH2O
Breaking Strength-CD (warp)	≥600	N/5x20cm
Breaking Strength-MD (weft)	≥1000	N/5x20cm
Breaking Elongation-CD	<25	%
Breaking Elongation-MD	<45	%
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continuous Operating Temperature	125	°C
Recommended Short-term Operating Temperature	140	°C
Finishing	Singeing calendering, PTFE impregnation, film processing	

7. Specification for Anti-static needle punched felts:

Fibre Composition	Polyester staple fiber	
Scrim Composition	Polyester anti - static filament	
Weight	500	g/m ²
Thickness	1.9	mm
Mean Air Permeability	9-12	m ³ /m ² /min @ 12.7mmH ₂ O
Breaking Strength-CD (warp)	≥1000	N/5x20cm
Breaking Strength-MD (weft)	≥1300	N/5x20cm
Breaking Elongation-CD	<30	%
Breaking Elongation-MD	<50	%
Surface Resistance	<10 ¹⁰	Ω
Volume Resistance	<10 ⁹	Ω
Friction Potential	<500	V
Surface Charge Density	<7	μC/m ²
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continuous Operating Temperature	130	°C
Recommended Short-term Operating Temperature	150	°C
Finishing	Singeing, calendering, heat setting treatment	

8. Specification for Aramid needle punched felts:

Fibre Composition	Aramid fiber	
Scrim Composition	Kevlar staple fiber	
Weight	550	g/m ²
Thickness	2.2	mm
Mean Air Permeability	9-12	m ³ /m ² /min@12.7mmH ₂ O
Breaking Strength-CD (warp)	≥800	N/5x20cm
Breaking Strength-MD (weft)	≥1000	N/5x20cm
Breaking Elongation-CD	<25	%
Breaking Elongation-MD	<45	%
Dry Shrinkage-CD	< 1	%
Dry Shrinkage-MD	< 1	%
Recommended Continous Operating Temperature	200	°C
Recommended Short-term Operating Temperature	240	°C
Finishing	Singeing, calendaring, heat setting, PTFE impregnation treatment	