



NO: NWFTD20250315WEM

Water Electret Meltblown Nonwoven Fabric - Technical Datasheet

Manufacturer: NW Fabric

Email: info@nwfabric.com

Tel: +86-159-85817329

Website: www.nwfabric.com

1. Basic Information

Item	Specification
Material	100% Polypropylene (PP)
Fabric Type	Water Electret Meltblown Nonwoven
Electret Treatment	Water-based Charging Technology
Weight	20gsm - 60gsm (customizable)
Width	$\leq 1600\text{mm}$
Color	White
Roll Length	Customized
Core Diameter	76mm (3 inch)

2. Technical Properties

Property	Value
BFE ($3\text{ }\mu\text{m}$ particles)	$\geq 99\%$ (ASTM F2101 / EN14683)
PFE ($0.3\text{ }\mu\text{m}$ particles)	$\geq 95\%$ (ASTM F2299)
Pressure Drop	$\leq 35\text{ Pa}$ (EN14683)
Air Permeability	$\geq 100\text{ L/m}^2 \cdot \text{s}$ (GB/T 5453)
Water Resistance	$\geq 80\text{cm H}_2\text{O}$ (AATCC 127)
Static Decay Time	$< 2\text{ seconds}$ (MIL-STD-3010)
Charge Retention Duration	$\geq 6\text{ months}$

3. Features

- High-efficiency electrostatic filtration
- Long-lasting charge retention
- Eco-friendly water electret treatment (no chemical residues)
- Soft and breathable



NO: NWFTD20250315WEM

- Customizable width, weight, and color

4. Applications

- Surgical and medical face masks
- N95/KN95/FFP2 respirators
- HVAC and air purifier filters
- Industrial filtration

5. Packaging & Storage

Item	Description
Packing	PE bags + carton or pallet
Storage Condition	Cool, dry, ventilated
Shelf Life	Up to 12 months under proper storage

6. Certifications

- ISO 9001 Certified
- EN14683 / ASTM F2100 Compliant
- RoHS & REACH Compliant
- BFE / PFE Tested

Test Report

(Electronic version)

No: 20R006998





NO: NWFTD20250315WEM

(Electronic version)

Test Report

No: 20R006998

Particle filter penetration of paraffin oil

石蜡油颗粒物穿透率

Test Method: EN 13274-7:2019

测试方法: EN 13274-7:2019

Test condition:

测试条件:

Flow through filter: 95 L/min

气体流量: 95 L/min

Paraffin oil aerosol concentration: 20mg/m³

石蜡油气溶胶浓度: 20mg/m³

Test temperature and humidity: temperature: 23.1℃, humidity: 36.4%

测试温湿度: 温度: 23.1℃, 湿度: 36.4%

Results 结果:

Aerosol 气溶胶类型	Test type 测试类型	Sample processing 样品处理	Actual penetration 实际穿透率 (%)		Requirement 技术要求	Conclusion 单项结论
Paraffin oil Aerosol 石蜡油气溶胶	Penetration test 穿透测试	Untreated sample 未处理样品	1	0.331	---	---
			2	0.283		
			3	0.290		
	Exposure test 暴露测试	Temperature treat sample 温度处理样	1	19.0		
			2	18.7		
			3	17.5		

Remark 备注:

Temperature treatment conditions: a) Place in a dry environment at (70±3)℃ for (24±1) h; b) Place in a environment at (-30±3)℃ for (24±1) h.

温度处理条件: a) 在 (70±3)℃干燥环境放置 (24±1) h; b) 在 (-30±3)℃环境放置 (24±1) h。

Loading condition: 120mg

加载条件: 120mg