

质量达标
安全可靠



熔喷无纺布

Melt-blown non-wen fabric

可达最高级别FFP3，支持定制！

We can reach the highest level-FFP3, and customization is supported.



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高品质 高效率 低气阻

High quality, high filtration efficiency and low air-resistance

青岛华世洁环保科技有限公司

Qingdao Huashijie Environment Technology Co.,Ltd.

青岛华世洁环保科技有限公司是国内较早从事工业有机废气（VOCs）治理的专业厂家，目前已经发展为集研发、设计、制造（含安装调试）、销售、运维及第三方区域化治理于一体的在国内具有较强影响力的高新技术企业。公司荣获科技创新成果金奖、第二届中国创新创业大赛[青岛赛区]一等奖、全国赛企业成长组三等奖、山东省名牌产品、“中国工业废气VOCs治理标杆企业”、青岛市科技进步二等奖等多项荣誉称号。

公司于2020年4月成立纳菲科事业部，主要负责国家二类医疗器械产品的资质认证、产品规划、品牌建设和品质体系运营，生产医用平面型和折叠型的口罩产品，纳米纤维静电纺丝、熔喷布等材料产品。

Qingdao Huashijie Environment Technology Co.,Ltd. is one of the earliest professional manufacturer of the VOCs treatment in the country. It has now developed into a high-tech enterprise with strong influence intergrating R&D, design manufacturing, sales, operation and maintenance, and third-party regional governance. We have won a number of honorary titles, such as gold Award of scientific and technological Innovation achievements, first prize of the second China Innovation and Entrepreneurship Competition [Qingdao Competition Area], third prize of national Enterprise Growth Group, shandong famous brand products, "China's Industrial exhaust VOCs Governance benchmark enterprise", second prize of Qingdao Scientific and Technological Progress and so on.

Naficular division was established in April 2020, which is mainly responsible for the national second-class medical machinery product qualification certification, product planning, brand building and quality system operation, and produces medical flat and folding masks, nano-fiber electrospinning, melt-blown fiber and other material products.



熔喷无纺布简介 Brief Introduction

熔喷无纺布是采用PP为主要原料，通过熔融纺丝，并经喷头两侧呈一定角度的高速热气流喷吹，将纤维拉伸、下落成网，且多以自粘的方式形成的非织造布。

产品具有以下特点：

- 纤维直径可以达到1~5微米，过滤效率高；
- 空隙多、结构蓬松、阻力低；
- 纤网均匀度好，手感柔软。

Melt-blown non-woven fabric uses PP as the main raw material, through melt spinning, and is blown by a high-speed hot air flow at a certain angle on both sides of the nozzle to stretch, and all the fiber into a net, and most of them are formed by self-bonding.

The products has the following characteristics:

- Fiber diameter can reach 1~5 microns, high filtration efficiency;
- More voids, fluffy structure, low resistance;
- The fiber net has good uniformity and soft touch

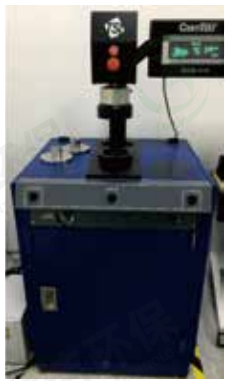
物理性能要求 PHYSICAL PERFORMANCE REQUIREMENTS

序号 No.	项目 Item	单位 Unit	要求 Requirement	检测方法 Test Method
1	幅宽 Fabric Width	mm	目标幅宽±2 Target Fabric Width±2	GB/T 4666-2009
2	克重 Gram Weight	g/m ²	25±3g/m ²	GB/T 24218.1-2009
3	横向拉伸强度 MD Tensile Strength	N/5cm	≥4	GB/T 24218.3-2010, 宽度 50mm, 试样长度为200mm, 拉伸速度 100mm/min。
	纵向拉伸强度 TD Tensile Strength	N/5cm	≥2	
4	横向断裂伸长率 MD Elongation at break	%	≥20	
	纵向断裂伸长率 TD Elongation at break	%	≥20	

过滤效率及阻力要求 FILTRATION EFFICIENCY AND RESISTANCE REQUIREMENTS

项目 Item	单位 Unit	口罩类型及执行标准 Respirator types and standards	HSJ性能指标 Requirement	测试流量 Test Flow	测试设备 Test Equipment
NaCl气溶胶过滤效率*-PFE% NaCl Aerosol filtration efficiency *-PFE %	%	一次性使用医用口罩 (YY/T 0969-2013) 医用外科口罩 (YY 0469-2011) 医用一次性口罩 (EN 14683-2019) 民用卫生口罩 (T/CNTAC 55-2020 T/ CNITA 09104-2020)	≥99	32±2L/min	TSI8130
阻力 Resistance	Pa	医用防护口罩 (GB 19083-2010) 呼吸防护用品 (GB 2626-2006) 日常防护型口罩 (GB/T 32610-2016) 普通防护口罩 (T/CTCA 7-2019) 儿童口罩 (GB/T 38880-2020)	≤40		
色拉油过滤效率*-PFE% Filtration efficiency of salad oil *-PFE%	%	欧洲劳动防护口罩 (EN149-2001 FFP1、FFP2、FFP3)	≥99	95±2L/min	
阻力 Resistance	Pa	韩国口罩 (MFDS-KF94)	≤300		

检测设备 Testing equipment



滤料检测仪 TSI8130
Filter material detector TSI8130



偏光显微镜
Polarizing microscope



熔融指数仪
Melt index meter



拉伸试验机
Tensile testing machine



电荷密度测试仪
Charge density tester



扫描电子显微镜
scanning electron microscope

检测报告 Test report

检测报告
GB2626-2006

检测报告
YY0469-2011

产品用途 MeLt-blown fiber is the key to efficient filtration

- | | |
|-----------|-----------------------------------|
| 1.口罩 | Mask |
| 2.过滤材料 | Filter Material |
| 2.医疗卫生用材料 | Medical and Sanitary Materials |
| 3.环境保护材料 | Environmental Protection Material |
| 4.服装材料 | Clothing Material |
| 5.电池隔膜材料 | Battery diaphragm material |
| 6.擦拭材料等 | Wiping materials, etc |



高效过滤·熔喷布是关键 MeLt-blown fiber is the key to efficient

熔喷布具有良好的过滤性、屏蔽性、绝热性和吸油性，是生产医用外科口罩和KN95口罩的重要原料。

Melt blown fiber has good filtering, shielding, thermal insulation and oil absorption, and is an important raw material for the production of medical surgical masks and KN95 masks.



纺粘无纺布（外层）
Anti-stick non-woven
fiber (outer layer)

有效阻隔飞沫等可见物
Effectively block droplets
and other visible objects

熔喷无纺布（中层）
melt-blown fiber
(middle layer)

过滤空气中非油性颗粒物
Filter out non-oily
particulate matter from the air

纺粘无纺布（内层）
Anti-stick non-woven
fiber (inner layer)

吸附体内呼出的热气
令皮肤干爽舒适
Absorb the hot air from the
body and make the skin dry
and comfortable

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