



圣纱 带给您静谧、清新和温暖！

SENSA® BRINGS YOU PEACE, FRESHNESS AND NICE WARM!

SENSA®

BRINGS YOU PEACE,
FRESHNESS AND NICE WARM!



称道新材料科技(上海)有限公司

SENSA NEW MATERIAL TECHNOLOGY (SHANGHAI) CO., LTD
地址: 上海市青浦工业园区天盈路585号 电子邮箱: info@sensa-tech.com
电话: 021-5970 0388

www.sensa-tech.com

本资料不作为合同附件, 本公司保留在事先不知情的情况下对其修改的权利
The data can not be deemed as a integral part of any agreement.
SENSA reserves the right to make alteration without prior notice.

称道新材料科技(上海)有限公司

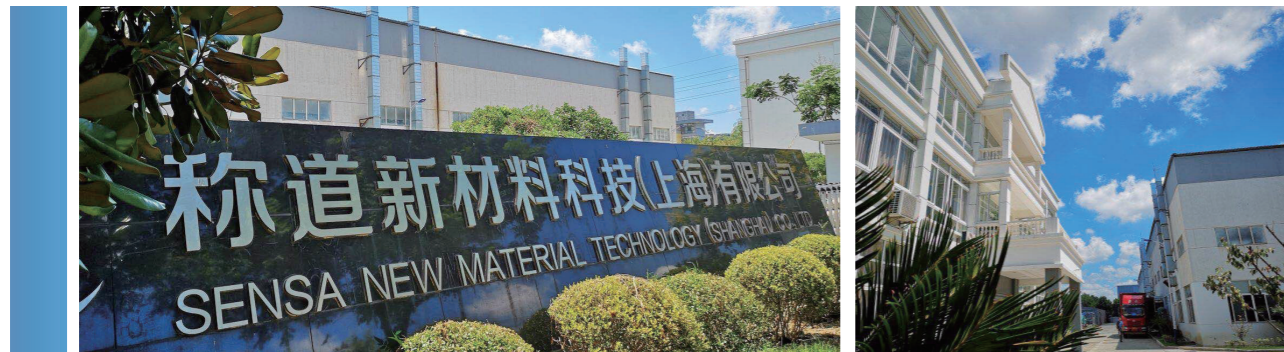
SENSA NEW MATERIAL TECHNOLOGY (SHANGHAI) CO., LTD

称道新材料科技(上海)有限公司, 2012年成立于上海, 注册资本1000万元。借助于管理层资深的国际专业背景和丰富的行业经验, 整合其海内外的技术与市场资源, 经历数年兢兢业业的耕耘, 目前发展为一家注重创新、倡导合作的科技型公司。在以熔喷、气流梳理、纺粘等非织造工艺的基础之上, 其团队进行了技术的整合与工艺的延伸, 开发生产多用途的新型非织造材料。产品广泛应用于空气净化、劳动防护、新风过滤与液体过滤、汽车及其他工程机械燃油过滤、工业隔热保温等。因性能优异, 品质稳定, 在各个应用领域均得到国内外客户广泛的肯定和好评。公司已申请约30项技术专利。公司实验室装备了国际先进的测试设备和仪器。

企业注重开展外部合作, 获得行业专家的协作与指导, 与国内外知名企业进行技术交流与市场推广。与部分高校建立长期的校企合作关系。

SENSA New Material Technology (Shanghai) Co., Ltd. was established in 2012 with registered capital 10 million RMB. With the help of its top management's professional background and rich experience, it integrates the technologies and market resources in the nonwoven industry. After years of hard work, it has gradually become a scientific and technological company. On the basis of melt blown, airlay, and spunbond non woven technology, the team has made new progress on technology innovation. It develops and produces new multi-purpose nonwoven materials, which are widely used in air purification, labor protection, fresh air filtration and liquid filtration, fuel filtration for automobiles and other construction machinery, industrial thermal insulation and other industries. Because of its excellent performance and stable quality, the materials have been widely recognized and praised in various application fields both in domestic and export market. The company has applied for more than 30 technical patents. The lab has been equipped with international advanced instruments.

At the same time, it focuses on external cooperation, obtains the cooperation and guidance of industry experts, and carries out technical exchanges and market promotion with well-known enterprises at home and abroad. It establishes long-term school-enterprise cooperation with some colleges and universities.



公司愿景与行动 Vision & Mission

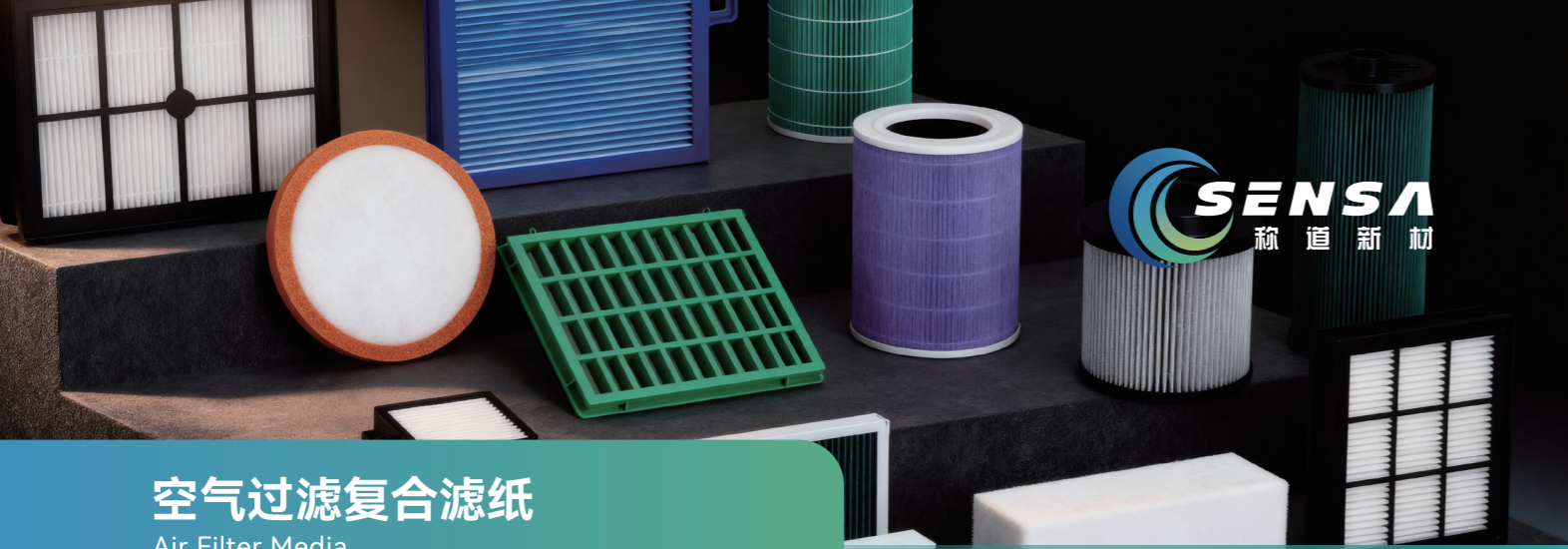
依靠品质与持续的品质进步, 成为首屈一指的行业先锋
To become the Leading Industry Pioneer, relying on top quality and sustainable improvement

核心价值 Core Value

称道员工贡献值得称道的品质
Each individual is accountable to QUALITY

荣誉&专利 Honors & Patents





空气过滤复合滤纸 Air Filter Media

空气过滤熔喷基材 Melt-blown HEPA Filter Media

空气过滤复合滤纸技术参数表

Technical Parameter Table for Air Filter Media

规格型号 Type	产品等级 Product Grade	熔喷克重 Melt-blown Basic Weight	初始阻力 Initial Resistance (mmH ₂ O)	初始效率 Initial Efficiency (%)
		(g/m ²)	@2% NaCl, 0.3 μm, 32 L/min	
FM-P65/MB20NXXX	P65	20±2	≤0.6	≥65
FM-P85/MB20NXXX	P85	20±2	≤0.8	≥85
FM-P95/MB20NXXX	H11	20±2	≤1.2	≥95
FM-P995/MB20NXXX	H12	20±2	≤2.0	≥99.5
FM-P995/MB25NXXX	H12	25±2	≤2.0	≥99.5
FM-P9997/MB25NXXX	H13	25±2	≤2.8	≥99.97
FM-P9997/MB30NXXX	H13	30±3	≤2.8	≥99.97
FM-P99995/MB30NXXX	H14	30±3	≤4.0	≥99.995
FM-U15/MB45NXXX	U15	45±4	≤5.5	≥99.996

空气净化复合滤纸技术

Air Filter Media Technology

- 适用于家用空气净化器、汽车空调滤等领域
Applicable to areas such as household purifiers and automotive air conditioning filters.
- 与合作伙伴协作，采用国际先进的喷胶复合设备，可实现三层材料的一次性复合与分切加工
New laminating equipment enables use to laminate three layers simultaneously
- 采用国际品牌的PO环保胶，上胶量小且更环保，无气味
Eco-friendly PO hotmelt applied, with very low dosage
- 可根据客户的具体需求，选用国内外多种工艺、功能的支撑材料。
同时可实现空气净化的各种功能，包括但不限于：除醛、抗菌、抗病毒、抗过敏等
According to the customer needs, various supporting materials with different processes and/or functions can be selected. And, a variety of air purification functions can be achieved, including but not limited to: deodorization, antibacterial, antiviral, anti-allergy, etc.
- 可根据不同客户、不同用途的具体技术要求和成本要求，来选择合适的熔喷材质和工艺方法
Diversified meltblown nonwovens can be chosen, based on customers' specific requirement, end-use and cost evaluation
- 采用水驻极工艺
Hydroelectric process is adopted.
- 公司所生产的空气净化复合滤纸，经测试，确认过滤性能符合 IEST RP CC001.7 TYPE A 要求
Product was tested and confirmed that meets IEST RP CC001.7 TYPE A efficiency requirements.

空气过滤熔喷基材技术参数表

Technical Parameter Table for Melt-blown HEPA Filter Media

规格型号 Type	克重 Basic Weight (g/m ²)	初始阻力 Initial Resistance (mmH ₂ O)	初始效率 Initial Efficiency (%)
		@2% NaCl, 0.3 μm, 32 L/min (或: 5.33 cm/s)	
FM-P65/MB20N	20±2	≤0.4	≥65
FM-P75/MB20N	20±2	≤0.5	≥75
FM-P85/MB20N	20±2	≤0.6	≥85
FM-P95/MB20N (H11)	20±2	≤0.9	≥95
FM-P98/MB20N (H11)	20±2	≤1.1	≥98
FM-P995/MB20N (H12)	20±2	≤1.6	≥99.5
FM-P995/MB25N (H12)	25±2	≤1.6	≥99.5
FM-P9997/MB25N (H13)	25±2	≤2.5	≥99.97
FM-P9997/MB30N (H13)	30±3	≤2.5	≥99.97
FM-P99995/MB30N (H14)	30±3	≤3.6	≥99.995

开发与应用

Development and Applications

- 产品采用水驻极技术，更高效率，更低阻力。
The product adopts hydroelectric process, offering higher efficiency and lower resistance.
- 可为客户量身定制不同克重、不同效率等级的材料。
Materials of different grammages and efficiency grades can be customized for customers.
- 可选用各种工艺、功能的骨架支撑材料与之复合。
Various types of supporting materials with different processes and functions can be combined with it.
- 广泛应用于空气净化器等领域。
It is widely applied in fields such as air cleaner.



口罩过滤材料

Face Mask Media

新风过滤材料

Fresh Air Filter Media

材料可覆盖的口罩类别

Types of Masks That the Material Can Cover



口罩 Mask	口罩标准 Mask Standards	克重范围(g/m ²) Weight Range (g/m ²)	口罩等级 Mask Grade	过滤性能测试条件 Filtration Performance Test Conditions
中国_医用防护口罩	GB 19083-2010	25~50	1级≥95% 2级≥99% 3级≥99.97%	85L/min, 0.3um, 2%NaCl
中国_医用外科口罩	YY 0469-2011	20~30	BEF≥95%	32L/min, 0.3um, 2%NaCl
中国_日常防护口罩	GB/T 32610-2016	45~60	A级(≥99%) B级(≥95%) C级(≥90%) D级(≥80%)	85L/min, 0.3um, 2%NaCl & 石蜡油
中国_KN95口罩	GB 2626-2019	50~80	KN90(≥90%) KN95(≥95%) KN100(≥99.97%)	85L/min, 0.3um, 2%NaCl & 石蜡油
美国_N95口罩	42 CFR Part 84	50~80	N95(≥95%) N99(≥99%) N100(≥99.97%)	85L/min, 0.3um, 2%NaCl
美国_医用外科口罩	ASTM F2100-2019	25~30	Level1(BFE≥95%) Level2(BFE≥98%) Level3(BFE≥98%)	32L/min, 0.1um, 2%NaCl
欧盟_FFP系列口罩	EN 149:2001+A1:2009	40~60	FFP1(≥80%) FFP2(≥94%) FFP3(≥99%)	95L/min, 0.3um, Paraffin oil
欧盟_医用口罩	EN 14683:2019	25~50	Type I(BFE≥95%) Type II(BFE≥98%) Type III(防喷溅)	金黄色葡萄球菌悬浮液
日本_防尘口罩	JIS T 8151:2018	25~50	DS1(≥80%) DS2(≥95%) DS3(≥99.9%)	85L/min, 0.3um, 2%NaCl
韩国_KF系列口罩	KMOEL-2017-64	25~50	KF80(≥80%) KF94(≥94%) KF99(≥99%)	85L/min, 0.3um, 2%NaCl

口罩合作品牌

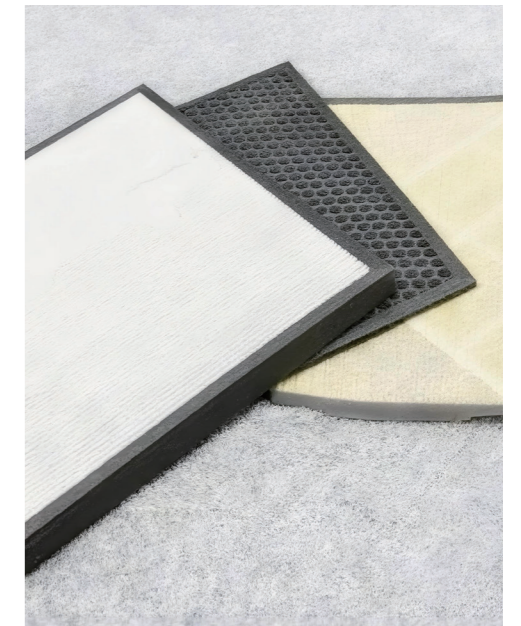
Cooperative Mask Brand



新风过滤材料技术参数表

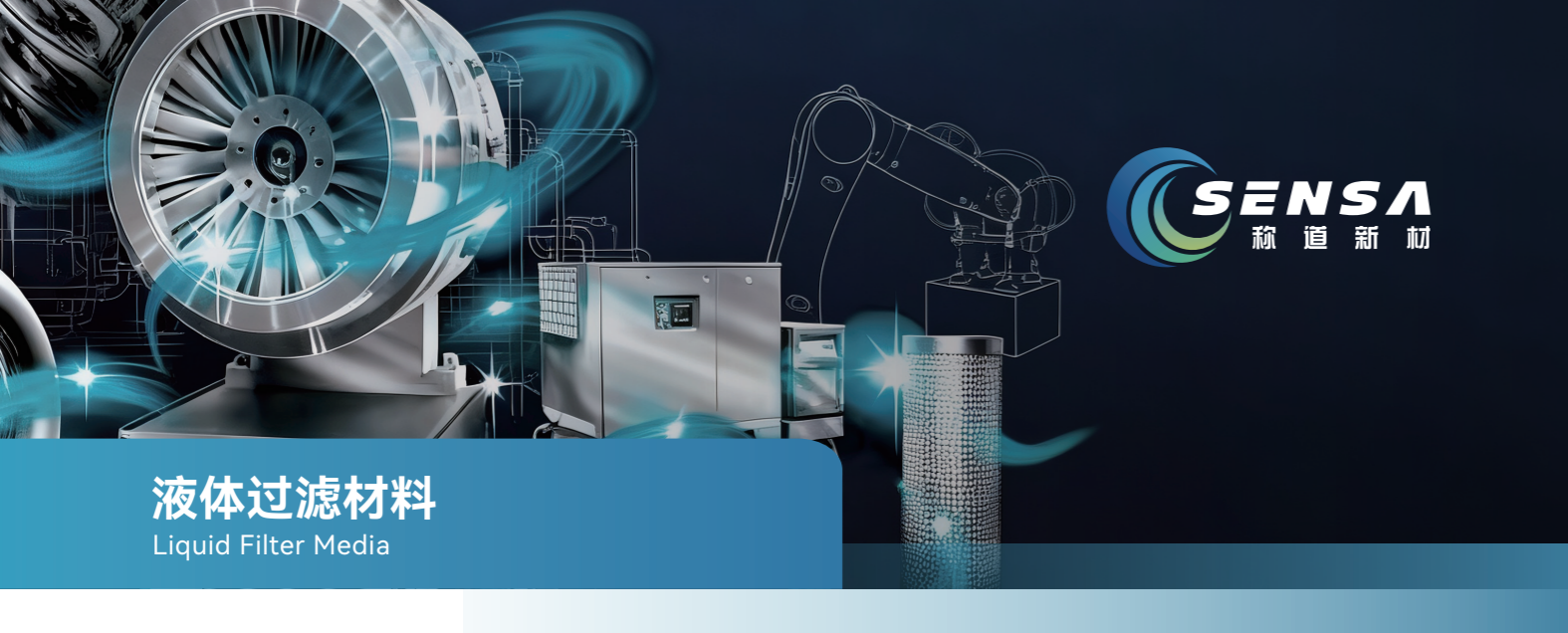
Technical Parameter Table for Fresh Air Filter Media

规格型号 Type	克重 Basic Weight (g/m ²)	初始阻力 Initial Resistance (mmH ₂ O)	初始效率 Initial Efficiency (%)
		@2% NaCl, 0.3 μm, 32 L/min (或: 5.33 cm/s)	
FM-P65/MB10	10±2	≤1.0	≥65
FM-P75/MB12	12±2	≤1.2	≥75
FM-P85/MB15	15±2	≤1.4	≥85
FM-P90/MB20	20±2	≤1.6	≥90
FM-P95/MB25	25±2	≤1.8	≥95
FM-P98/MB25	25±2	≤2.5	≥98
FM-P99/MB30	30±3	≤3.5	≥99



差别化系列熔喷非织造布的制备，基于进口的先进熔喷设备、国际技术领先的进口高熔指原材料以及自身专有的静电驻极技术，三者完美结合后获得。熔喷微纤直径可在1μm 以下。该产品的最大特点是过滤效率衰减周期长，其广泛地应用于空气新风过滤系统、口罩等领域。

Advanced meltblown equipment, special/imported raw materials and state-of-art static-electret technology are the three key factors for Specialty Meltblown fiber Nonwoven. The diameter achieved is around 1μm. The most distinctive feature of this product is its long attenuation period of filtration efficiency. It is widely applied in air freshener filtration systems, mask production, and other fields.



液体过滤材料

Liquid Filter Media

PP液体过滤材料

PP Melt-blown for Liquid Filter Media

基于在熔喷行业的口碑、装备条件和研发能力，研发出液体过滤材料，广泛应用于民用、工业等领域，材料最小孔径可达到1um以下。采用TOPAS PSM-165型孔径/孔隙检测测试仪对孔径与孔隙进行检测，可以得出孔径及其孔径的分布曲线，以确保材料性能的稳定性与一致性。

Based on its reputation, equipment conditions and R&D capabilities in the melt-blown industry, the company has developed liquid filtration materials, which are widely used in civil, industrial and other fields. The minimum pore size of the material can reach below 1 micrometer (μm). The TOPAS PSM-165 Pore Size/Porosity Tester is used to detect the pore size and porosity, and the pore size and its distribution curve can be obtained to ensure the stability and consistency of the material performance.



- 过滤精度高、通量大、纳污能力强
High filtration accuracy, through-put and dirt holding capacity.
- 耐酸碱、耐腐蚀、无毒、使用周期长
Resistant to acid and alkali, nontoxic, long life time.
- 可根据客户需求定制所需材料
Can be customized according to customer requirements.

- 适应性广，可广泛应用于生物制药、水净化与处理、食品饮料与酿酒、化工以及电子电力等诸多行业
Wide range of applications, such as: biomedicine, water treatment, beverage and brewery, chemical industry, electrical/electronic industry, etc.

PBT熔喷材料

PBT Melt-blown for Liquid Filter Media

PBT是聚对苯二甲酸丁二醇酯 (Polybutylene Terephthalate) 的简称，属于热塑性聚酯树脂。

公司协同上下游伙伴联合研发了PBT过滤材料，该材料广泛应用于柴油及生物柴油的杂质过滤与水分分离领域。产品具备宽泛的过滤精度范围，纳污性能强劲，可与木浆、支撑网等多种材料实现复合成型，最终制成使用寿命长的复合型过滤材料，能够充分满足多场景下的应用需求。

PBT is the abbreviation of Polybutylene Terephthalate, which is a type of thermoplastic resin. The company, in collaboration with its upstream and downstream partners, jointly developed PBT filter material. This material is widely used in the mechanism filtration and water separation of diesel and biodiesel. The product has a wide range of filtration accuracy and strong pollutant absorption capacity. It can be combined and formed with various materials such as wood pulp and support nets, ultimately resulting in a long-lasting composite filter material that can fully meet the application requirements in multiple scenarios.



PBT熔喷材料技术参数表

Technical Parameter Table for PBT Melt-Blown Materials

规格型号 Type	复保护层 W/O Scrim	克重 Basis Weight (g/m ²)	透风量 Air Permeability (L/m ² /s) @200Pa	*>4um效率 Efficiency(%)	*Beta100 μm	*纳污量 Dust holding Capacity(g/m ²)
LM-AP200/PB20	Without	20±10%	170~230	90	6	140
LM-AP400/PB20	Without	20±10%	360~440	70	10	130
LM-AP100/PB40	Without	40±10%	80~120	90	6	140
LM-AP180/PB40	Without	40±10%	150~210	80	8	130
LM-AP240/PB50	Without	50±10%	210~270	65	11	180
LM-AP360/PB3020	With	50±10%	330~390	60	13	120
LM-AP240/PB5020	With	70±10%	220~260	65	11	180

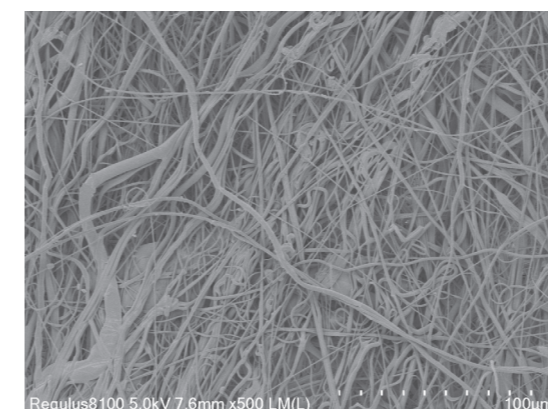
* ISO 19438多通测试结果

应用实例

Applications

应用 Applications	整体效率(在指定um下) Overall Efficiency(% at specified um)									纳污量 Dust holding Capacity (g/m ²)
	4um	5um	6um	7um	8um	9um	10um	12um	15um	
PBT熔喷+木浆(精滤) PBT Melt blown + cellulose (Fine Filtration)	99	99.9	100	100	100	100	100	100	100	150
PBT熔喷+木浆(粗滤) PBT Melt blown + cellulose (Coarse Filtration)	85	90	95	98	99	99	99	100	100	170

测试条件: 测试流量0.7L/min, 最终净压力=70kPa Test Condition: Test flow=0.7L/min, dp=70kPa



- 100% 采用进口PBT聚合物原料，具有低IV值和其他稳定特性
100% imported PBT polymer, with lower IV and other stable properties.
- 耐热性能优异(耐180°C)、耐油、耐化学腐蚀
Excellent heat resistance (up to 180°C), strong resistance to oil, chemical corrosion protection.
- 可广泛应用于燃油过滤材料的复合，获得高纳污量，优异的水分分离性能
It can be widely applied in the compounding of fuel filtration materials, achieving high dust holding capacity and excellent oil-water separation properties.

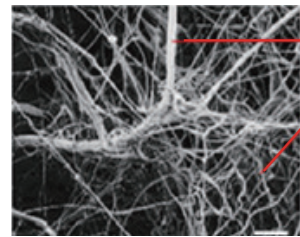


双组份吸音棉

Bico Acoustic Insulation

双组份吸音棉工作原理

双组份吸音棉，是通过特殊设计的工艺流程制得的质轻、蓬松的复合材料。该材料内部形成三维网状结构，且交织的纤维细度范围极广，从直径为 1-4um 的微纤到直径为 20-40 um 的较粗纤维。当声波振动通过纤维间的孔隙时，在摩擦损耗等作用下导致声波的能量转化成热能，从而起到不同频率声波的有效屏蔽与隔离效果。

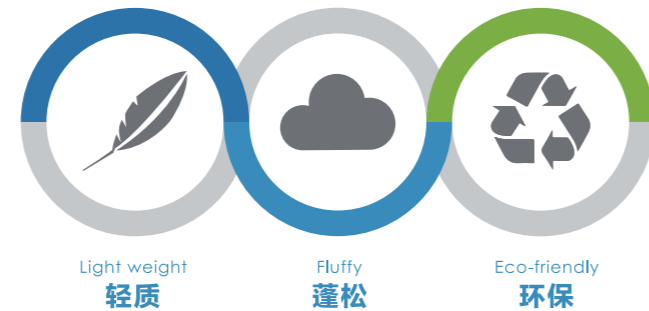


PET纤维
PP纤维

新型双组份吸音棉内部纤维结构电镜照片
Magnified image of Bico acoustic insulation

How Come Bico Acoustic Insulation Performs Better

Bico acoustic insulation material, is very light (weight) and fluffy which is made with specially-designed process flow technology. It also gives the material a three-dimensional network structure. The material consists of a wide range of microfibers with \varnothing 1-4 μ m diameter and coarser titer staple fibers with \varnothing 20-40 μ m diameter. In effect of friction and dissipation, the sound energy is converted into heat energy when acoustic waves pass the porosities between the fibers, thus to sufficiently absorb the sounds for a very wide range of frequencies.



双组份吸音棉的特点

How Good Bico Acoustic Insulation Is



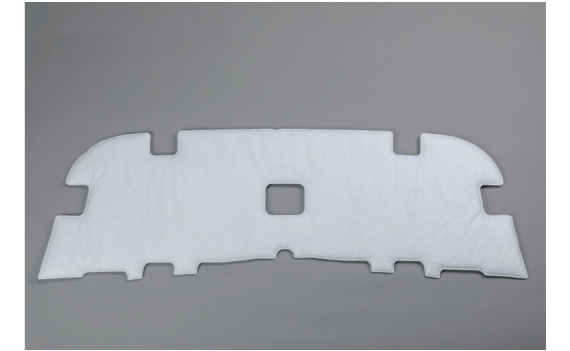
双组份吸音棉的应用

Applications of Bico Acoustic Insulation

主要应用

除中高级汽车外，还可以广泛用于高铁、游艇、邮轮甚至飞机等其它交通工具上。此外，在家电、机房、泵房、K歌厅、变电房、办公设备等领域亦可起到独特的隔热吸音效果。

Main applications: all vehicles such as: cars,buses,CRH trains,yachts or even air planes Other applications: Home appliance,engine room,pump room,Karaoke room,substation and office equipment,etc



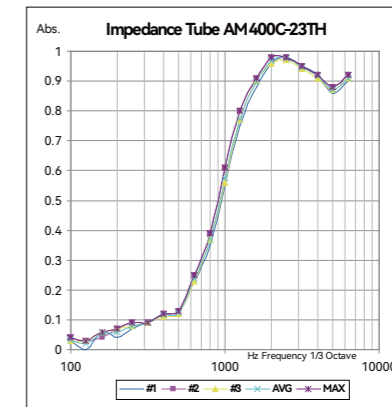
常见应用区域

车门、前后车盖、仪表盘、顶棚内饰、后备箱等大部分区域。
Typical parts: doors,liftgates,instrument panels, headliners,package trays,etc.

除用于装配新车外，在乘用车改装市场的应用也逐渐成熟。More and more used in auto retrofit market as well

方便用户安装使用，可特殊设计定制，可协助多项辅助加工：裁切、敷铝箔、敷胶、配搭扣等。

Can be specially designed and tailor-made upon request, More downstream processes can be done or supported.



双组份吸音棉HL 系列技术参数

Technical Data Sheet: Bico Acoustic Insulation Serial HL

型号 Type	规格描述 Description	克重 Basic Weight(g/m ²)	厚度 Thickness(mm)
AM-150D15/16T	45% PET +55% PP	150±10	16±3
AM-210D15/21T	45% PET +55% PP	210±15	21±3
AM-240D15/26T	45% PET +55% PP	240±20	26±4
AM-340D15/37T	45% PET +55% PP	340±20	37±4

特点

最新新技术升级，相同克重下更蓬松，且有效消除边角的安装空隙，吸音效果更佳；更有助车辆轻量化改进；使用成本更低。

Advantage: Upgrade development, higher loft, no more dead point and much better sound absorbing capability @same basic weight; More help to demand on light weight vehicles, Less costs owing to lower weight material used for same sound a bsorbing effect.

双组份吸音棉CL 系列技术参数

Technical Data Sheet: Bico Acoustic Insulation Serial CL

型号 Type	规格描述 Description	克重 Basic Weight(g/m ²)	厚度 Thickness(mm)
AM-200D15/10T	45%PET+55%PP	200±10	10±2
AM-300D15/18T	45%PET+55%PP	300±20	18±3
AM-400D15/26T	45%PET+55%PP	400±30	26±3
AM-600S35/42T	45%PET+55%PP	600±40	42±3

特点

吸音性能优良，与国际知名品牌现有产品高度匹配。

Advantage: Good sound absorption, perfectly compatible with that of international famous brands.



双组份保温棉

High Performance Thermal Insulation

保暖原理

高效工业保温棉采用微米级微纤维经特种工艺复合而成，且具有立体网状结构。是一种质地轻、保温性能优异的填充材料。

How Come SENSA®

High Performance Thermal Insulation Performs Better

SENSA® High Performance Thermal Insulation is made from microfibers, to form three-dimensional network structure. It can be called one of the most warm-keeping materials.



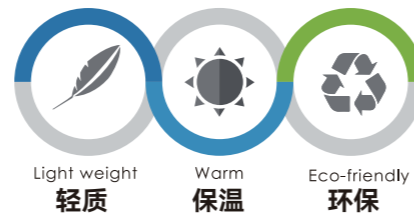
高效工业保温棉所使用的独特的微纤维与其它多数合成保温材料所使用的纤维相比较，其直径仅为数十分之一，使得它能隔绝更多的空气，从而达到更有效的保温效果；对于相同体积的保温材料，高效工业保温棉中含有更多的纤维数量，起到加倍保温的效果。

The unique microfibers or fine fibers that make up insulation work by trapping air. The more air a material traps in a given space the better it insulates from the cold atmosphere. Because the fibers in insulation are finer than the fibers used in most other synthetic or natural insulation, they trap more air in less space, which naturally makes insulation a better insulator.

IMC产品技术参数表

IMC Product Technical Data Sheet

规格型号 Type	克重 Basic Weight(g/m ²)	厚度 Thickness(mm)	保温率 Thermal Insulation Efficiency (%)	传热系数 Heat Transfer Coefficient (W/m ² ·K)	克重值 G/O Value (m ² /kg)
IM-C40	40	3	53	9.5	0.7
IM-C80	80	6	63	5.4	1.2
IM-C100	100	6	72	4.2	1.5
IM-C150	150	9	79	2.8	2.3
IM-C200	200	12	82	2.4	2.7



备注/Note:

1. 可以应客户要求设计定制其它规格。
1. Can be tailor made for special requirement.

双组份保温棉具有轻、薄、柔、暖、耐洗涤、不霉变、透气性好（芯吸效应）等特点。吸水量小于其本身重量的1%，因此即使在潮湿环境下依然能够保持较好的隔热能力。

高效工业保温棉采用食品包装级别原材料；而且在生产的过程中，不添加其它化学物质，产品可以达到欧洲生态纺织品（Oeko-Tex Standard 100）的要求。

高效工业保温棉从技术上已经可以实现100%回收再利用。通过在产品配方上的调整，圣纱®高效工业保温棉可实现不同等级的耐温、耐光、阻燃等要求。

高效工业保温棉，产品规格广（不同厚度、克重、外形），除应用于服装服饰外，正被大量应用于农业大棚保温、工业管道和风管的风寒隔热等。

Product is weight light, warm, soft, moisture-resistant (hydro-phobic) and breathable. It is still effective in damp conditions. Fibers absorb less than 1% by weight of water.

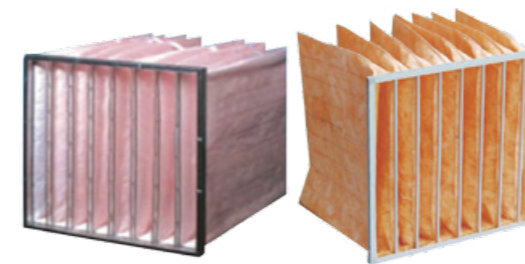
Raw materials for are somehow of food-packaging grade, exclusive of any chemical additives, thus Thermal Insulation is also in line with Oeko-Tex Standard 100. Thermal Insulation is Eco-friendly, can be 100% recyclable.

By adjusting the formula of the material, Thermal Insulation can be heat durable, anti-light/anti-UV and flame retardant.

Thermal Insulation family of products includes a wide selection of insulation weights, thicknesses and appearances. Besides the use on different clothes, they can be widely used as the insulators in agricultural greenhouses, industrial pipes and air ducts.

空气过滤棉,用于袋式过滤器

Air Filter Media, for Pocket-type Filters



初效系列、中效系列、高中效系列、亚高效系列。我们的用户可以使用我们的双组份空气过滤棉生产各类最终用途的过滤设备和设施，如：采暖过滤、吸尘器、HVAC 过滤、汽车空气滤网、集尘室等。

该高效空气过滤材料运用先进的长效静电驻极技术，将静电长期保存在纤维结构中。实现高效、低阻、高容尘。符合最新的 ISO16890 标准。

为方便我们的用户，我公司对不同级别的过滤材料使用国际统一识别标示。

Air filter media for Pocket-type Filters, including different grades: ASHRAE grade, Sub-HEPA. We produce and provide filter media to customers for producing air filter equipment of wide range end uses such as: ASHRAE filters, vacuum cleaners, HVAC filters, auto cabin filters and bag house filters.

The filter media apply and keep static electricity in microfibers with our new static-electret technology to ensure very high and consistent air filter effect & dust load capability while at very low air resistance, in compliance with the new ISO16890 standard.

All air filter materials are labeled in accordance with international standards for easy identification.

双组份空气过滤棉

Bi-component Air Filter Media

FM袋式过滤棉技术参数表

FM Pocket Type Air Filter Media Technical Data Sheet

规格型号 Type	克重 Basic Weight(g/m ²)	标准 Standard		产品性能 Product Performance @32L/min	
		中国 China	欧洲 EU	初始阻力 Initial Resistance (mmH ₂ O)	初始效率 Initial Efficiency(%)
FM-G4/C30	30±5	初效 Medium	G4/F5	0.4-0.7	40-55
FM-F5/C40	40±5	初效 Medium	F5	0.6-1.0	55-65
FM-F6/C50	50±5	中效 Medium	F6	≤1.2	≥75
FM-F7/C60	60±5	中效 Medium	F7	≤1.4	≥85
FM-F8/C70	70±5	高中效 Senior Medium	F8	≤1.6	≥90
FM-F9/C80	80±5	亚高效 Sub HEPA	F9,F10	≤2.0	≥95

备注/Note 可以应客户要求设计定制其它规格。
Can be tailor made for special requirement.