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 保定宁信集团有限公司

Baoding Ningxin Group Co., Ltd

Hebei Shanchu New Material Co., Ltd

专注过滤 助力铸造

Foundry molten metal filters

公司简介

保定宁信集团有限公司（原保定宁信新型材料有限公司，以下简称宁信集团）始创于2002年，注册资金4100万元。集团主营业务为研发、生产及销售耐高温铸造过滤产品，包括玻璃纤维过滤网及耐火陶瓷过滤器。产品形式多样，能满足如航空航天、军工、汽车、风电、水利、铁路、重型机械、高压电器等铸造零部件的各种类型的熔融金属过滤需求。宁信集团下属2个生产制造工厂，位于河北省保定市唐县长古城工业园区，占地面积3万余平方米，员工人数200余名。历经20多年的不懈努力，宁信集团现已发展成为行业内具备较强自主研发能力，并实现较大规模化、自动化生产的现代化科技型企业。

宁信集团目前拥有专利23项，包括发明专利9项、实用新型及外观专利11项。集团先后获得国家科技型中小企业、高新技术企业、专精特新中小企业、河北省高新技术企业科学技术进步奖等奖项。研发中心被河北省工信厅评定为A级技术研发中心，“环保型金属液玻璃纤维过滤网”获得了河北省工信厅“河北省工业新产品新技术扶持推广应用产品-自主研发国内领先”的技术水平认定，同时获得“河北省制造业单项冠军产品”认定。宁信集团通过ISO9001质量管理体系及ISO14001环境管理体系认证，并不断推行5S、TQM全面质量管理及卓越绩效管理。集团多次获得各种质量奖项，是河北省AAA级重质量守信用企业、河北省质量诚信双保障企业、安全生产标准化企业、河北省爱心企业、职业健康企业。宁信集团是国内多家铸造行业协会的优秀会员单位，多次在铸造行业展会上获得“最具吸引力展商”、“全国铸造材料金鼎奖”、“优秀铸造材料奖”等奖项及荣誉。

宁信集团专注铸造过滤，骨干技术人员有超过20年的行业经验，客服团队可提供高效快捷的技术支持及上门服务；集团客户遍布大江南北，产品销往海外众多国家和地区。宁信集团以服务铸造行业为荣，竭力为行业合作伙伴提供长期、稳定、完善的铸造过滤产品、服务及解决方案。

ABOUT US

Baoding Ningxin Group Co., Ltd. (Formerly Baoding Ningxin New Material Co., Ltd. and hereinafter called Ningxin Group, one of the branch factories is named Hebei Shanchu New Material Co., Ltd.) was founded in 2002 with registered capital of 41 million CNY. The core business is R&D, production and sales of high temperature resistant molten metal filters including fiberglass filter and ceramic foundry filter. There are various forms of filters available to meet the requirements of various types of molten metal filtration. Ningxin Group has two manufacturing factories covering an area of 30,000+ square meters and employing more than 200 staffs. With 20+ years of great efforts, Ningxin Group has developed into a modern enterprise with strong R&D ability in industry, also has achieved large-scale and automated production.

Ningxin Group currently has 23 patents and has been certified with ISO9001 and ISO14001. The group is an AAA quality and trustworthy enterprise in Hebei Province. Ningxin Group is an excellent member unit of many foundry industry associations, and has won awards and honors such as "Most Attractive Exhibitor", "National Golden Tripod Award for Foundry Materials", "Excellent Foundry Material Award" at foundry industry exhibitions for many times.

Ningxin Group has been focusing on metal casting filtration for years. The key technical staffs have more than 20 years of industry experience and the customer service team could provide efficient and fast technical support. Ningxin Group has customers all over the country, and the filters have been supplied to many overseas countries and regions.

Ningxin Group is proud of serving the foundry industry, and strives to provide long-term, stable and perfect metal filtration products, services and solutions for industry partners.





宁信荣誉 Ningxin Honor



产品应用领域 Product application

APPLICATION SCENARIOS

	汽车零部件制造业应用 Application in Auto Parts Manufacturing
	摩托车零部件制造业应用 Application in Motorcycle Parts Manufacturing
	农机机械件制造业应用 Application in agricultural machinery parts manufacturing industry
	泵体阀门制造业应用 Application in Pump and Valve Manufacturing
	航天精工军工制造业应用 Application in Aerospace and Military Manufacturing
	轨道交通制造业应用 Application in Railway Manufacturing
	船舶石油机械制造业应用 Application in marine petroleum machinery industry
	风电能源制造业应用 Application in Wind Power Energy Manufacturing

碳化硅泡沫陶瓷过滤器 Sic ceramic foam filter

特点及优势 Features and advantages

碳化硅泡沫陶瓷过滤器具有内部互相连通的三维立体结构,可在过滤熔融金属时充分体现其整流、机械筛分、“滤饼”、吸附四大过滤机制,用于改善球铁、灰铁、可锻铸铁等铸件质量,可有效去除金属熔液中的非金属夹杂物并减少金属溶液的紊流。

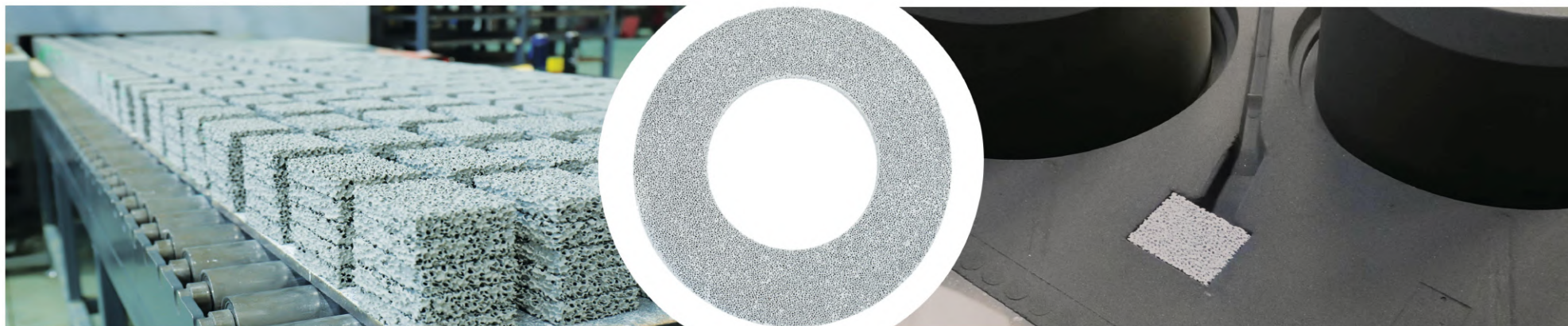
- 简化浇注系统,提高铸件产出率
- 有效去除铁水中的非金属杂质
- 降低紊流,保持铁水流动的一致性,减少气泡发生
- 提高铸件机械性能,减少机加工刀具磨损,降低成本
- 降低铸件废品率

Sic (silicon carbide) ceramic foam filters of NINGXIN are developed and manufactured for the filtration of cast iron and non ferrous alloys. As the most advanced filter type with the higher filtration efficiency, It can effectively reduce inclusions and turbulence of molten metal, ensuring purified molten metal goes into the mould cavity with improved flow rates. Using the unique formula and manufacturing process, NINGXIN sic ceramic foam filter has excellent thermal shock resistance, chemical resistance and high temperature resistance up to 1500°C.

- Precise sizes control on ceramic foam filters
- High strength with multi-impregnated slurry and free from loose debris
- Branded main raw materials to ensure stable quality
- Good porosity and free from block during pouring molten metal
- Mature sintering technology to ensure high refractory and good thermal shock resistance

性能指标及规格型号 Specifications

主要材料 Main material	碳化硅、氧化铝、二氧化硅 Sic、AL ₂ O ₃ 、SIO ₂	最大过滤能力 /kg Capacity		金属液正常流速 kg/s Flow rate	
		球墨铸铁 Ductile iron	灰铸铁 Grey cast iron	球墨铸铁 Ductile iron	灰铸铁 Grey cast iron
使用温度 Operating temperature	≤1500(°C)				
颜色 Colour	灰 Gray				
孔密度 PPI	8/10/15/20/25/30 (每 25.4mm 直线上孔数)				
孔隙率 Porosity	≥80%				
常温抗压强度 Compressive strength	≥1.0Mpa				
体积密度 Bulk density	0.36-0.5g/cm ³				
抗热震性 Thermal shock resistance	2次 times/1100°C- 室温 Room temperature				
规格 /mm					
30*50*22		30	60	3	4
40*40*22		32	64	3	4
50*50*22		50	100	4	6
75*50*22		75	150	6	9
100*50*22		100	200	8	12
75*75*22		110	220	9	14
100*75*22		150	300	12	18
100*100*22		200	400	16	24
150*100*22		300	600	24	36
150*150*22		450	900	36	54
Φ40*11		20	40	2	3
Φ50*22		35	70	3	4.5
Φ60*22		50	100	4.2	6.5
Φ70*22		75	150	5.5	8.8
Φ80*22		100	200	7.2	11
Φ90*22		120	240	9	14
Φ100*22		140	280	11	17
Φ150*22		350	700	25	38



氧化锆泡沫陶瓷过滤器 Zirconia ceramic foam filter

特点及优势 Features and advantages

氧化锆泡沫陶瓷过滤器具有三维孔状立体结构，高耐温性(最高1700°C)，高强度，能过滤高温钢水中几微米的夹渣，使钢铸件表面更光滑，减少机加工损耗，降低生产成本，提高生产率；还能使金属液的流速变得缓和有序，使钢水能有效充分地填充模具，使钢铸件内部结构分布更均匀，使钢铸件的综合力学性能显著提高，提升铸件的品质。

Zirconia ceramic foam filters are best choice for filtering of steel and steel alloys up to the temperature of 1700 °C. It is recommended especially for high quality grades of steel alloys.

- Reduction in inclusion levels
- Good filtration capacity
- Ideal for the filtration of high alloyed steel
- High efficiency

注意事项：

- 不需预热，否则会影响陶瓷片性能
- 避免金属液直接冲击陶瓷片



性能指标及常用规格型号 Specifications

主要材料 Main material	氧化锆 Zirconia
使用温度 Operating temperature	≤1700(°C)
颜色 Colour	黄色 Yellow
孔密度 PPI	8/10/15/20/25/30 (每 25.4mm 直线上孔数)
孔隙率 Porosity	≥76%
常温抗压强度 Compressive strength	≥1.2Mpa
体积密度 Bulk density	0.4-0.85g/cm³
抗热震性 Thermal shock resistance	2次 times/1100°C- 室温 Room temperature

圆形 (mm)		方形 (mm)	
Φ 50*22	Φ 60*22	50*50*22	60*60*22
Φ 70*22	Φ 75*25	70*70*22	75*75*25
Φ 100*25	Φ 125*30	100*100*25	125*125*25
Φ 150*30	Φ 200*35	150*150*30	175*175*35
Φ 250*40	Φ 300*40	200*200*35	250*250*40

孔密度分类表 Hole density classification table

孔密度代号	孔数/25.4mm	孔密度代号	孔数/25.4mm
06PPI	5 ~ 8	25PPI	22 ~ 27
10PPI	7 ~ 15	30PPI	26 ~ 35
15PPI	13 ~ 17	40PPI	36 ~ 45
20PPI	16 ~ 25	50PPI	46 ~ 55

尺寸规格：可按照客户要求的尺寸、形状进行定制

包边要求：可以根据客户要求可在过滤器周边包裹厚度为 1mm, 3mm, 5mm 的耐高温纤维棉，也可以定制生产陶瓷包边产品。

Size Specification: Can be customized according to the size and shape required by customers.

Edge Wrapping Requirements: According to customer requirements, high temperature resistant fiber cotton with a thickness of 1mm, 3mm, and 5mm can be wrapped around the filter. Other special edge wrapping products can also be customized.



钢水纤维过滤网 High silica fiberglass mesh filter thick type

特点及优势 Features and advantages

钢水过滤网由高硅氧玻璃纤维纱线多股编织制成，涂覆专利技术耐火材料，厚度接近铁水过滤网3倍，比铁水过滤网拥有更强的抗热冲击性能，有效去除熔融金属中的夹渣、炉渣、型砂等非金属杂质，同时降低紊流、消除铸件气孔。钢水过滤网可在1620°C钢水中持续工作数秒保持完好，是小型铸钢件的理想选择，同时钢水过滤网也可用于铁水过滤，适合浇注温度较高的、浇注时间较长的灰铁、球铁铸件过滤；用于有色金属可持续工作数小时保持完好。由于出众的强度和韧性，钢水过滤网还可以用作冒口或浇注系统隔片，金属液凝固后在网片安放位置轻敲即可断开，可大大降低去除冒口和铸型多余部分的成本，且断面平整，有效保护铸件。

High silica fiberglass mesh filter is woven by high silica fiberglass yarn and coated with special refractory coating. It can effectively remove slag, refractory particles and non-metallic inclusions from molten metals. Made from specially treated silica yarns, the thick type silica mesh filters are capable of withstanding pouring temperatures up to 1620°C. Silica mesh filters are ideal for in-mold filtration of gray, malleable, white, compacted graphite and ductile cast irons, as well as non-ferrous aluminum and copper-based metal alloys and many types of small scale steel casting filtration. Besides the function of molten metal filters, it could also be used for riser knock-off or de-gating. Investment casters have also placed the preform cup shape filters in the wax mold gating system to filter metal at pattern entry.

产品规格：网孔为1.5x1.5mm, 2.0x2.0mm, 2.5x2.5mm, 4.0x4.0mm。可按用户需要预制成不同尺寸和形状的单片及模压异形产品。Mesh size available: 1.5x1.5mm, 2.0x2.0mm, 2.5x2.5mm and 4.0x4.0mm. Other sizes and shapes can be customized upon request.

性能指标 Performance indicators

类型 Type	NX-HSFG-2 (钢)
使用温度 Use temperature	≤ 1620 (°C)
发气量 Gas emit	80-100cm ³ /g
厚度 Thickness	1.5mm-2.0mm
网孔 Hole Size	1.5x1.5mm/2.0x2.0mm/2.5x2.5mm
织法 Weave pattern	多股充纱罗织Mock Leno



铁水纤维过滤网 High silica fiberglass mesh filter thin type

特点及优势 Features and advantages

铁水过滤网由高硅氧玻璃纤维网布涂覆独特配方的耐火材料制成，能有效去除熔融金属中的非金属杂质，同时可以降低紊流、消除铸件气孔，显著降低铸件废品率。铁水过滤网使用方便，经济实惠。

产品特点：

- 性价比高
- 树脂浸渍均匀厚实，超高强度
- 网格均匀，过滤效果好
- 柔韧性好

High silica fiberglass mesh filter is woven by high silica fiberglass yarn and impregnated with special refractory coating. It can effectively remove slag, refractory particles and non-metallic inclusions from molten metals. The thin type silica mesh filters are capable of withstanding pouring temperatures up to 1450°C. It can be the good choice for small scale iron castings.

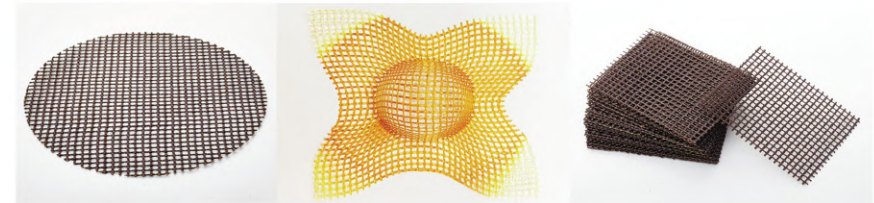
Advantages:

- Low cost and easy to use
- Improves fluidity and metal distribution
- Removes inclusions and impurities
- Can be used with existing pattern

产品规格：常规网孔为1.5x1.5mm, 2.0x2.0mm, 2.5x2.5mm。可按用户需要预制成各种尺寸和形状的单片及模压异形产品。Mesh size available: 1.5x1.5mm, 2.0x2.0mm, 2.5x2.5mm. Other sizes and shapes can be customized upon request.

性能指标 Performance indicators

类型 Type	NX-HSFG-1 (铁)
使用温度 Use temperature	≤ 1450 (°C)
发气量 Gas emit	90-100cm ³ /g
厚度 Thickness	0.45mm-0.6mm
网孔 Hole Size	1.5x1.5mm/2.0x2.0mm/2.5x2.5mm
织法 Weave pattern	绞织Leno



铝水纤维过滤网 Aluminium filtration filter

特点及优势 Features and advantages

铝合金铸造中的汽车及摩托车轮毂、转向节、汽缸活塞、缸体缸盖、铝锭、铝材等精铸铝合金零部件，在浇注时铝液中含有一定夹渣，铝液接触空气易被氧化而产生氧化皮等杂质，同时铝铸件往往对质量有较高的要求。经现场浇注试验，不用过滤网比使用过滤网产生的废品率至少高于5%以上，因此为了大大的降低成本，使用过滤网是很有必要的。

Aluminium filtration filter is specially developed and used for filtration, turbulence reduction and flow distribution improvement of non-ferrous alloys especially the molten aluminum. The product can be metal wire mesh filter, metal sponge filter and fiberglass mesh filter.

铝液专用金属丝网过滤网

金属丝网过滤器为铝合金铸造传统过滤产品，目前仍广泛应用于各类铝合金铸造工艺。产品具有强度高、韧性好、丝径细等特点。但因金属丝网基材不仅限于应用于铝合金铸造，基材良莠不齐，成分较难界定，产品稳定性较差，且使用过程需放置得当，避免损伤模具。我公司可根据客户需求进行相应产品的设计及生产。

产品优势：

该产品强度高、支撑力好，使用过程中不易形变。

The traditional metal wire mesh filter is very cost effective and easy to use. Till now it has been still widely used especially for the gravity die casting and low pressure die casting filtration. The only problem is the iron contamination, now it is gradually replaced by the new generation of fiberglass mesh filters.

铝液专用泡沫合金过滤器

泡沫合金过滤器为铝合金铸造新兴过滤产品，生产工艺复杂，成本较高。其本身具有立体过滤结构，适用于对铝合金铸件成型进度、致密性等要求较高的铸造工艺。通过经验积累，我公司现已能成熟生产该类产品，适应高端铸件客户需求。

产品优势：

该产品内部结构复杂，过滤效果明显，可有效截挡金属熔液中的残渣；

该产品的立体结构可有效改善金属熔液充型出现的紊流现象；

该产品应对对充型过程、产品致密性等要求极其严格的产品。

This filter is made from metal and treated with sponge like technology, the structure is quite similar to the ceramic foam filters. It's mainly used for low pressure die castings which request very high filtration effect.

铝液专用纤维过滤网

铝液专用纤维过滤网以耐热纤维布为基材，具有可塑性高、工艺稳定性强等特点，可适用于低压、差压、重力等多类铝铸造工艺，广泛应用于铝合金轮毂、铝合金缸体及缸盖、铝合金活塞等产品的多环节生产过程。通过不断的产品创新及技术服务积累，我公司可根据客户需求，设计、开发符合客户生产实情的整体过滤方案及系列产品，助力客户产品改进及降低综合成本。

产品优势：

我公司所产纤维过滤网可在保证使用强度的同时兼具发气量低的特点，属国内先进产品；

可有效过滤铝熔液中的氧化物等杂质，避免因杂质导致的铸件缺陷；

可有效解决传统铁制过滤器导致的铸件增铁现象，提升铸件机械性能；

产品可塑性高，可通过设计综合使用在产品生产的多环节，提高综合成品率；
对铝熔液无污染，浇口废铝可高效回收、循环利用，符合“绿色铸造”理念，降低综合成本。
产品形式：各种形状平切片，成卷网布，缝制过滤袋，异型产品等。

The product is weaved from E-glass fiberglass yarn with various finishes and has extensive forms. It could be used for most aluminum refinery and castings filtration application, benefitting low turbulence and minimizing oxides film generation. It could be in forms of rolls and sewn bag, cut pieces, molded items etc..

It is proved to be very effective for molten metal filtration in almost all types of aluminium foundries including sand, permanent mold, shell, die casting and investment castings, and it will be optimized choice to improve casting quality by using the fiberglass fabric mesh filters. Fiberglass mesh filter will never contaminate molten aluminium. In this way, the job to recycle the sprue, gate and risers is very easier to handle, as there is no treatment at all and just remelt it in furnaces.



性能指标 Performance indicators

类型 Type	NX-EFG
使用温度 Use temperature	≤800(°C)
发气量 Gas emit	≤40cm ³ /g
厚度 Thickness	0.35-0.6mm
网孔 Hole Size	0.8x0.8/1.0x1.0/1.2x1.2/1.5x1.5/2.0x2.0/2.5x2.5mm
织法 Weave pattern	交织 Leno/ 平织

■ 低压/差压铸造工艺专用纤维网特点及优势

Characteristics and advantages of fiber filter in low pressure pressure casting process

在低压铸造过滤中，传统使用的铁丝网使用方便，但是凝固后内含铁质过滤网的浇冒口重熔是最大的问题。为避免熔炉中的铝液出现铁元素污染，含铁丝网的冒口不能直接回炉，由此产生的额外处理成本较高。使用纤维过滤网后，铸件生产厂家可以直接把含有纤维网的冒口回炉，不用任何额外处理，不会给熔炼铝液造成任何影响，因为纤维网不含铁元素。同时纤维网由于密度低于铝液，在冒口回炉后，内含的纤维网会漂浮到铝水液面，只需要撇渣时捞走即可。

我们可为客户定制最适用的纤维过滤网，基于我们超过10年的服务于各大低压铸造生产厂的经验。同时我们的专利配方和自动化生产设备，可为用户提供稳定的品质保证和大规模供应。

Fiberglass mesh filters for aluminum filtration are specially designed and woven for the diffusion and filtration of molten aluminum. High twisted yarns are used to control strand diameters and resist flattening or distortion under pressure from contact with molten metal. The integrity of the weave pattern is maintained by the use of phenolic resin, and by the use of leno or Plain construction in high density. Regular coating and carbonized smokeless treatment are both available.

FEATURES:

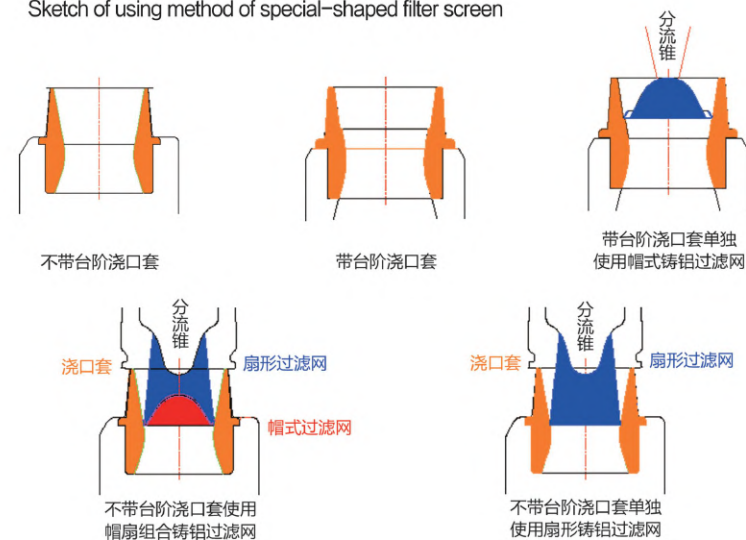
- Never change molten aluminum element or contaminate molten aluminum.
- No worry about the riser remelt anymore and easy to handle the aluminum scrap recycling. Fiberglass mesh filter can float on top of molten aluminum in furnace being remelt and recycled and can be more easily scooped out.
- Reduces molten aluminum turbulence and improves distribution and flow.
- Remove oxides and inclusions to improve castings mechanical properties and surface finish.
- Excellent stiffness and toughness, good heat resistance.

■ 性能指标 Performance indicators

类型 Type	NX-EFG
使用温度 Use temperature	≤800(°C)
发气量 Gas emit	≤40cm ³ /g
厚度 Thickness	0.5mm
网孔 Hole Size	0.8x0.8/1.0x1.0/1.2x1.2/1.5x1.5/2.0x2.0/2.5x2.5mm
织法 Weave pattern	绞织 Leno/ 平织

■ 异形过滤网使用方法示意图

Sketch of using method of special-shaped filter screen



氧化铝泡沫陶瓷过滤器 Alumina ceramic foam filter

特点及优势 Features and advantages

氧化铝泡沫陶瓷过滤器主要用于铝水净化过滤，能有效去除铝水中的各种细度达到微米级的夹杂物，使铝水变为平稳层流，有利于充型并减少气泡产生；具有优越的耐铝水冲刷性能，严格控制的孔洞尺寸和通孔率，可获得稳定的过滤效果，从而提高铸件质量，减少铸件废品率。大尺寸的氧化铝泡沫陶瓷过滤板广泛应用铝合金铸棒、扁锭、铝箔、铝罐料和高端铝型材等铝熔铸车间。可根据用户要求生产各种规格，目数10ppi至60ppi，最大尺寸可至26英寸。

Alumina Ceramic Foam Filter is mainly for the filtration of aluminum and alloys in foundries and cast houses. With the excellent resistance to attack and corrosion from molten aluminum, the filter can effectively remove inclusions, reduce trapped gas and provide laminar flow, and then the filtered metal is significantly cleaner. Cleaner metal results in higher-quality castings, less scrap, and fewer inclusion defects, all of which contribute to the bottom-line profit.

常规尺寸(Common sizes): * 可按客户要求定制生产不同形状尺寸和孔密度产品。

7x7x2" (178x178x50mm) 9x9x2" (229x229x50mm) 12x12x2" (305x305x50mm) 15x15x2" (381x381x50mm)
17x17x2" (432x432x50mm) 20x20x2" (508x508x50mm) 23x23x2" (584x584x50mm) 26x26x2" (660x660x50mm)

性能指标 Performance indicators

主要材料 Main material	氧化铝 AL ₂ O ₃
使用温度 Operating temperature	≤900(°C)
颜色 Colour	白色 White
孔密度 PPI	8/10/15/20/25/30/40/50/60 (每 25.4mm 直线上孔数)
孔隙率 Porosity	≥80%
常温抗压强度 Compressive strength	≥0.8Mpa
体积密度 Bulk density	0.3-0.5g/cm ³



直孔蜂窝陶瓷过滤器 Honeycomb extruded ceramic filter

特点及优势 Features and advantages

直孔蜂窝陶瓷过滤器具有比表面积大、强度高、耐热冲击的特点，通过型内过滤可达到以下效果：净化金属液去除非金属杂质和气体；使金属液充型平稳，减少旋涡；简化浇注系统，提高工艺出品率；减少铸件气孔，优化细化金属组织；提高铸件表面质量和力学性能；降低铸件废品率；减少加工余量和提高刀具寿命，降低铸造成本。

- 抗热冲击性能良好
- 开孔均匀一致
- 精度模具挤压成型确保一致性和稳定性

Extruded Ceramic Filters can effectively capture inclusions and reduce turbulence of the molten metal. Mullite based ceramic material could withstand heavy pouring thermal shock and extreme pouring temperature. The cellular design also provides an engineered balance between flow rate and strength. The extruded ceramic filters have excellent properties of precise dimension, good thermal stability, high specific surface area and resistance to acid and alkali. The extruded ceramic filters are applicable to wide and extensive filtration applications of ferrous and non-ferrous metal castings.

- Excellent strength and heat resistance
- Precise size and tolerance
- Stable control of metal flow
- Completely eliminate dregs

可按客户要求定制生产不同形状、尺寸和孔目数产品。
Different hole shapes, numbers and sizes can be customized upon request.

性能指标 Performance indicators

主要材料 Main material	莫来石 Mullite
使用温度 Operating temperature	≤1500(°C)
颜色 Colour	白色 White
孔目数 CSI	50/100/200/300
孔隙率 Porosity	38-60%
常温抗压强度 Compressive strength	≥20Mpa
体积密度 Bulk density	0.8-1.2g/cm ³

