

ADVANCED CERAMICS

先进陶瓷

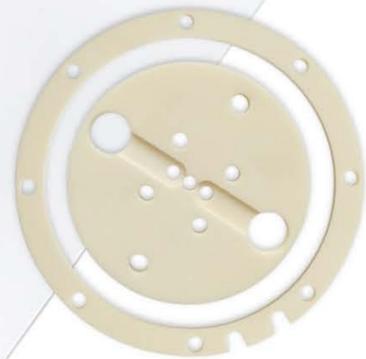
ENCHIRIDION FOR EFFICIENT, SUPERB AND PRODUCTIVE MANUFACTURING

高效、优质又高产的
现代化制造业攻略

先进陶瓷材料有独特的热学、电学、机械学性能组合，
可以为你的应用带来奇妙的助力。

Advanced ceramics include lots of fantastic material.
They have unique combination of thermal, electrical
and mechanical properties, then give your application
fantastic boost.

ADCERAM
HWACERAM



爱德赛拉陶瓷&华飒新材料

WE AIM TO BE A FANTASTIC PARTNER TO YOUR BUSINESS.

www.advanceram.com
www.hwaceram.com

NOTE

笔记

日期：
DATE

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创造无限的可能性

We create infinite possibilities.



公司简介 PROFILE

从一个小车间成长为现代化的先进陶瓷生产企业，爱德赛拉陶瓷材料有限公司拥有近三十年的生产经验。我们的研发人员以充分了解客户各类需求为己任，始终关注最新的技术发展，保证为客户提供卓越的产品性能。ADCERAM®致力于为客户生产先进、耐用的高质量产品，提供优质的服务和技术支持。在所有的生产环节中，我们拥有数十名成熟的技术人员，并为他们进行定期培训，确保严格的品控和产品的使用寿命。

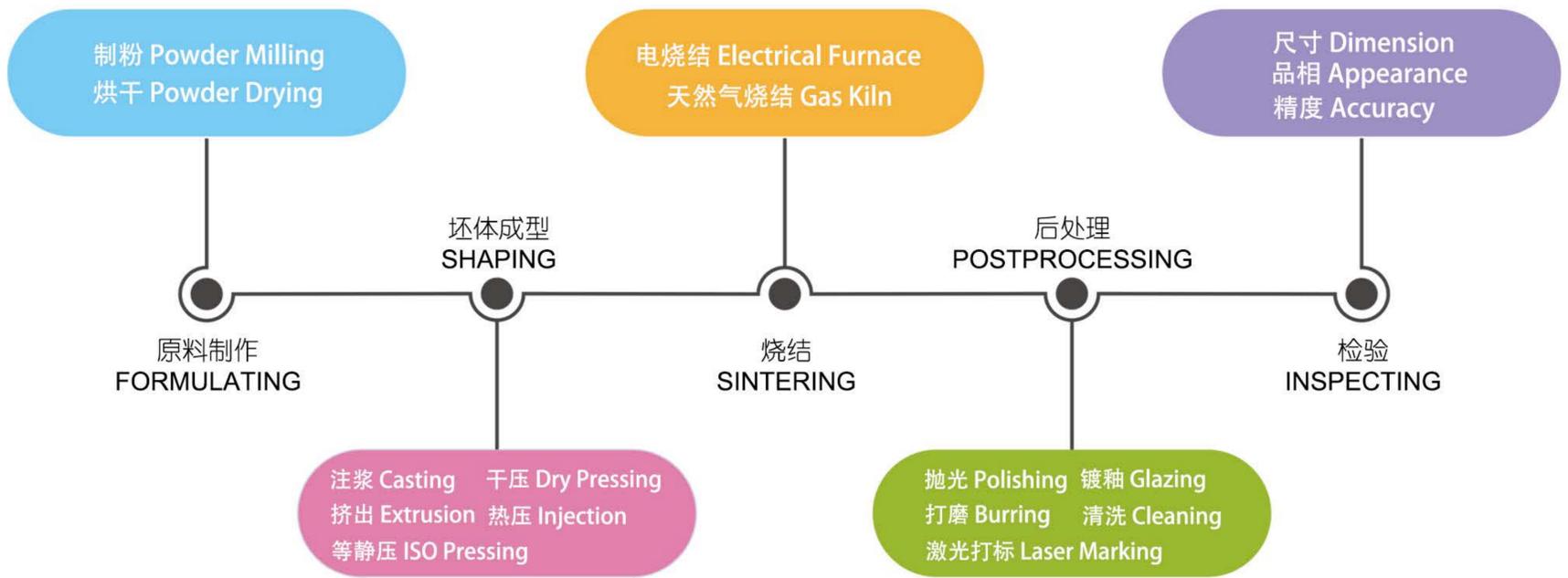
2018年，为扩大产品范围，新品牌“华飒HWACERAM®”应运而生。在未来，ADCERAM®和HWACERAM®将继续保持高水准的管理运营，提供稳定可信赖的产品，更好的服务客户，专注于与客户建立长期的合作关系。我们相信，客户的成功会使我们更加成功！

ADCERAM® was established in 1995, from a small workshop to one of the top modern advanced ceramics manufacturers in China today. As the industry pioneer of advanced ceramics manufacturers, our R&D team constantly understands the changing needs of customers, pursues the latest technological developments, and provides you with the highest level of performance. ADCERAM® is committed to providing customers with the most advanced, durable, and superb products and to provide them with the best service and support in the industry. In the whole process, we have dozens of mature technicians, and regular training is conducted to strictly control the quality to ensure the service life of the products.

In 2018, a new brand HWACERAM® was born in order to extend product range. In the future, ADCERAM® and HWACERAM® will continue to manufacture robust and reliable products, maintain a high level of operation, and better serve customers. ADCERAM® and HWACERAM® through practical knowledge and customer attention, focus on building long-term relationships with customers. We believe that the success of our customers will make us more successful.



工艺流程 TECHNOLOGY



成型方式 SHAPING MODE



注浆
SLIP CASTING



挤出
EXTRUSION



等静压
ISO PRESSING



干压
DRY PRESSING



热压铸
INJECTION

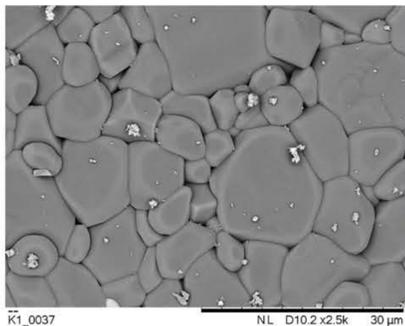


机加工
MACHINING

材料展示 MATERIAL

材质 Material		氧化铝 Alumina					莫来石 Mullite	氧化锆 Zirconia
理化性能 Properties	单位 Units	AL997	AL995	AL99	AL95	AL60	—	ZrO ₂
主成分含量 Ingredient	—	99.70%	99.50%	99.00%	95%	60%	—	—
颜色 Color	—	象牙色 Ivory	象牙色 Ivory	象牙色 Ivory	白色 White	白色 White	—	白色 White
气密性 Permeability	—	不透气 Gas-tight	不透气 Gas-tight	不透气 Gas-tight	不透气 Gas-tight	不透气 Gas-tight	不透气 Gas-tight	不透气 Gas-tight
密度 Density	g/cm ³	3.92	3.9	3.88	3.75	2.9	2.6	6.02
硬度 Hardness	Mohs Scale	9	9	9	8.8	7.5	8	8.5
吸水率 Water Absorption	—	≤0.2%	≤0.2%	≤0.2%	≤0.2%	≤0.2%	0	0
抗折强度 Flexural Strength (Typical 20°C)	Mpa	375	370	340	304	205	120	1200
抗压强度 Compressive Strength (Typical 20°C)	Mpa	2300	2300	2210	1910	1820	500	5700
热膨胀系数 Coefficient of Thermal Expansion (25°C to 800°C)	10 ⁻⁶ /°C	7.6	7.6	7.6	7.6	7.1	5.6	10
绝缘强度 Dielectric Strength (5mm Thickness)	AC-kv/mm	10	10	10	10	9	10.2	—
介电损耗 Dielectric Loss 25°C@1MHz	—	< 0.0001	< 0.0001	0.0006	0.0004	0.0007	0.002	0.001
介电常数 Dielectric Constant 25° C@1MHz	—	9.8	9.7	9.5	9.2	8.6	6	29
体积电阻率 Volume Resistivity (20°C) (300°C)	Ω·cm ³	>10 ¹⁴ 2*10 ¹²	>10 ¹⁴ 2*10 ¹²	>10 ¹⁴ 4*10 ¹¹	>10 ¹⁴ 2*10 ¹¹	>10 ¹⁴ >10 ¹³	>10 ¹⁴ 5*10 ¹²	>10 ¹³ 5*10 ⁸
长期使用耐受温度 Long-term operating temperature	°C	1700	1650	1600	1400	1200	1550	1600
热导率 Thermal Conductivity (25°C)	W/m·K	35	35	34	20	16	3.6	3

微晶结构图 (电镜下)
Microcrystalline Structure Diagram



成分检测报告
Composition Test Report



高纯度
High Purity



经认证
Certificated



抗腐蚀
Anti-corrosion



耐冲击
Impact-resistant



耐高温
Thermal-resistant



绝缘品
Insulating

热电偶陶瓷保护管主要用于将测温元件与外界隔开，使其在空气、氢气、水蒸气、惰性气体、一氧化碳和真空等环境中不受污染、氧化和物理破坏；绝缘芯的作用是将测温元件的不同极项隔开，避免两极干扰或接触短路，使测温准确无误。

我们的陶瓷管经过足时高温烧结，表面温润细腻。独家配方使得产品在高温下的抗软化性能更强。在保证优良性能的同时，我们最大限度追求尺寸的精准度。

(本产品执行标准：JC/T508-1994、JC/T509-1994)



Ceramic sheath is mainly used to divide the thermometric element from outer circumstance and protect the element from corrosion, oxidation and damage in air, hydrogen, steam, inert gas, carbon monoxide or vacuum environment. Ceramic insulator is specialized in separating the different poles of the temperature measuring element in order to prevent the electrodes touching each other and causing a short circuit and make the measuring result accurate.

After adequately sintering in kiln, phase transformation of Al_2O_3 and ZrO_2 creates meticulous texture, and the exclusive formula makes ceramic sheath unyielding in high temperature.

We pursue precision of size on the basis of ensuring excellent performance.

(Standard of ceramic sheath collection: JC/T508-1994, JC/T509-1994)



氧化铝陶瓷保护管常规规格
Alumina Ceramic Sheath Size

外径x内径 ODxID (mm)	长度 LENGTH (mm)	外径x内径 ODxID (mm)	长度 LENGTH (mm)
6x4	≤1500	18x14	≤2500
8x5	≤2500	20x15	
10x7		22x16	
12x8		24x18	
15x11		25x19	
16x12		28x22	
17x13		30x24	

氧化锆陶瓷保护管常规规格
Zirconia Ceramic Sheath Size

外径x内径 ODxID (mm)	长度 LENGTH (mm)	外径x内径 ODxID (mm)	长度 LENGTH (mm)
8*5.5	≤500	16*11	≤1050
10*5.5		17.5*11.1	
10*6	≤1050	18*12	
10*6.3		21.5*17.2	
12.5*9.5		21.5-45	

氧化铝陶瓷绝缘孔芯常规规格
Alumina Ceramic Insulator Size

直径x孔数 DIA. x HOLES (mm)	长度 LENGTH (mm)	直径x孔数 DIA. x HOLES (mm)	长度 LENGTH (mm)
1x1H	≤1000	4x4H	≤2500
1.5x1H		5x2H	
2x1H	≤1500	5x4H	
2x2H		6x2H	
2.5x2H		6x4H	
2.5x4H		6.5x6H	
2.8*1.8x2H(oval)		8x2H	
3x2H	≤2500	8x4H	
3x4H		8.5x2H	
4x2H		8.5x4H	

未出现在上述表格中的尺寸，也可以根据客户需求来定制。同一尺寸有一端封头和两端开口两种形式可供选择。
Dimensions not included in the table can be customized upon request. 2 shapes of tubes are available to one same size: both ends open and one end closed tube.



我们提供精密加工服务，可以实现法兰、螺纹、孔、槽等结构。

We provide precision machining service to meet the demand of additional structure.

温馨提示 NOTE

1、收到陶瓷管后，要确保烘干管体，切勿留水汽在其中。

Ceramic sheath must be dried up before using.

2、陶瓷管有可能会呈现出颜色不一的情况，可以将管子在太阳下暴晒一段时间，即可好转。

If the surface of ceramic sheath appears uneven color, exposure to the sun may improve the problem.

3、陶瓷管要均匀受热，并避免急冷急热的工况，也不可使用和陶瓷管温差极大的物品与管体接触。

Operator should heat ceramic sheaths and insulators evenly and prevent them from thermal shock. The heated ceramic sheaths and insulators should never be contacted with the object in greater temperature differential.

4、氧化铝热电偶保护管的极限使用温度是1800度，但是我们建议长期使用温度在1700度以下，并保持竖直放置，这样会大大提高保护管的使用寿命。

The max applicable temperature of alumina ceramic sheath is 1800°C. However, we suggest its continuous operating temperature under 1700°C and vertical placement in order to extend the service life.

5、不同工况对陶瓷管的性能要求有所不同，请提供准确信息选择合适的陶瓷管材料。

Certain material of ceramic sheath is competent in certain circumstance, while in the others may not. Supplying exact information on using may help you with the qualified material.

氧化铝坩埚、方舟主要利用材料具有热导率低、热膨胀系数小、制成品尺寸精度高、高温不变形、绝缘性能好、耐化学侵蚀性好等特点，被广泛应用于实验室和工业分析以及金属和非金属材料样品熔化，在金属加工、玻璃熔融、快速热循环、宝石净化等高温应用中很有优势。它们是熔化和精炼金属液体以及固液加热、反应的容器，是保证化学反应顺利进行的基础。

ADCERAM®和HWACERAM®为冶金、化工、核能、原子能、材料科学等领域的应用提供了大量的氧化铝坩埚和匣钵。



Alumina crucible, tray and boat have various advantages of accuracy, low thermal conductivity, low coefficient of thermal expansion, non-deformation in high temperature, preeminent insulation and excellent corrosion resistance. They are widely applied to metal and metalloid melting in lab or industrial analysis, and competent in high temperature applications such as metal processing, glass melt, rapid heating circle, gem purification and so on.

ADCERAM® and HWACERAM® supply numerous alumina crucibles, trays and boats to metallurgy, chemistry, nuclear, atomic energy, material industry, etc.



氧化铝柱形坩埚
Alumina Cylinder Crucible

| 直径x高度
dia.x height
(mm) |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 9x40 | 25x60 | 45x35 | 60x60 | 80x200 |
| 11x20 | 28x17 | 45x60 | 60x80 | 88x150 |
| 12x12 | 28x60 | 45x110 | 60x100 | 95x60 |
| 12x40 | 30x28 | 48x120 | 60x120 | 100x35 |
| 14x45 | 30x100 | 50x50 | 60x170 | 100x100 |
| 16x28 | 35x30 | 50x60 | 66x150 | 105x200 |
| 16x50 | 35x60 | 50x80 | 70x70 | 115x110 |
| 16x55 | 35x100 | 50x100 | 70x100 | 115x155 |
| 16x70 | 40x50 | 50x150 | 70x120 | 125x150 |
| 20x20 | 40x70 | 60x40 | 80x80 | 150x180 |

氧化铝弧形坩埚
Alumina Arc Crucible

容量 volume (ml)	上口直径 top dia. (mm)	底部直径 bottom dia. (mm)	高 height (mm)	容量 volume (ml)	上口直径 top dia. (mm)	底部直径 bottom dia. (mm)	高 height (mm)
3	20	16	17	70	57	33	55
5	25	16	20	100	60	35	60
8	24	16	30	150	75	44	70
10	30	20	28	200	80	46	72
15	35	20	30	250	90	52	75
20	37	22	33	300	90	53	87
25	39	22	39	400	77	55	120
30	45	25	39	500	100	60	125
40	45	25	45	750	115	63	140
50	50	30	50	1000	135	80	150

氧化铝坩埚较脆，韧性差，所以在处理过程中要小心轻拿，避免撞击，在使用前要仔细检查，有裂纹的产品不可使用。

Alumina crucible is brittle due to its poor toughness, so operator should pay attention to handling gently and avoiding impact with careful check before use. Crack products must never be used.

氧化铝坩埚在使用前要彻底干燥。如果在电炉中进行干燥，必须确保过程要缓慢进行，避免急冷热情况。并且坩埚不可在无升降温速率调节的炉子中使用，加热的速度不能超过50T/十分钟。氧化铝坩埚的最高加热温度不可超过1700度，要均匀受热。

The alumina crucible is supposed to be thoroughly dried before use. If drying proceeds in an electric furnace, it must be ensured that the process is slow and without thermal shock. Alumina crucible can't be used in the furnace without heating and cooling rate adjustment, heating speed can't exceed 50T/10minutes. The highest heating temperature of alumina crucible is not allowed beyond 1700 °C.

氧化铝方舟 Alumina Tray

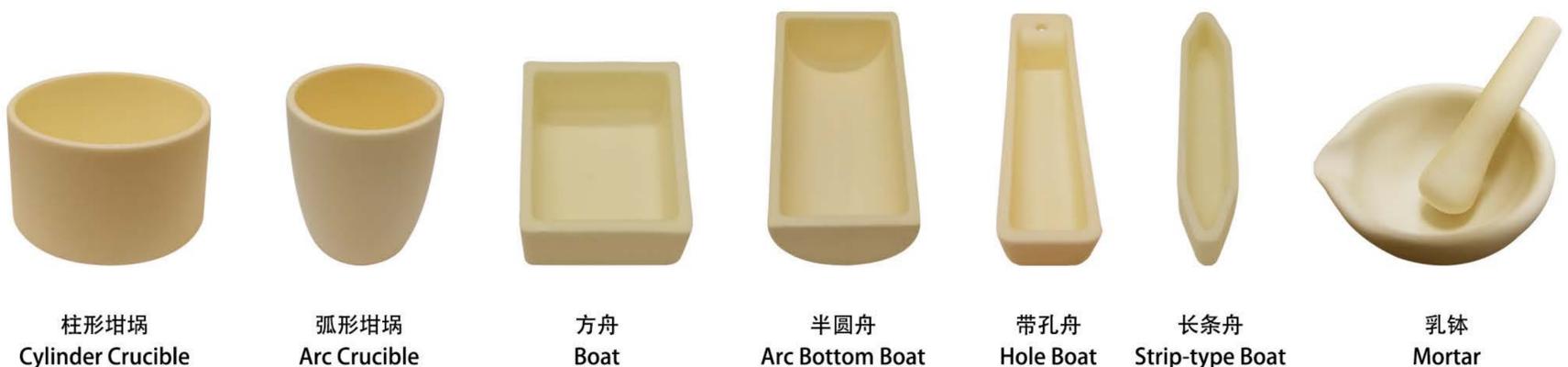
长x宽x高 LxWxH (mm)	长x宽x高 LxWxH (mm)	长x宽x高 LxWxH (mm)	长x宽x高 LxWxH (mm)	长x宽x高 LxWxH (mm)	长x宽x高 LxWxH (mm)
20x20x15	40x40x20	60x30x20	90x60x30	100x40x20	120x60x20
50x10x10	50x40x20	60x40x20	90x60x40	100x50x30	120x60x40
50x20x20	50x50x25	80x10x11	90x90x30	100x77x27	120x80x40
50x25x10	60x25x15	80x20x20	100x20x20	100x100x50	150x150x75
50x25x22	60x30x15	90x60x20	100x30x20	120x30x15	150x150x150

其他氧化铝坩埚系列 Other Alumina Crucible Series

半圆舟 Arc Bottom Boat		带孔舟 Hole Boat	长条瓷舟 Strip-type Boat	乳钵 Mortar
长x宽x高 LxWxH (mm)	长x宽x高 LxWxH (mm)	长x宽x高 LxWxH (mm)	长度 length (mm)	容积 volume (ml)
40x35x25	100x50x30	70x30x20	40	60
55x35x20	100x65x30	100x24x17	77	80
65x25x15	120x60x40	100x27x27	88	100
100x20x20	250x40x17	100x43x27	95	130
100x30x20		100x56x35		150
100x40x20		100x80x35		160
100x40x25				200

因为尺寸众多，并不是所有的尺寸均在表格有所体现。您可向客服询问库存中是否有您需要的尺寸。
We have numerous inventory specifications. If you don't find the desirable size in the above sheet, please consult the sales.

各类型坩埚、方舟均可配相同材质盖子。盖子可加工成带边、带筋和带子口类型
We also provide the lids with edge, rim or knurl to match each crucible.



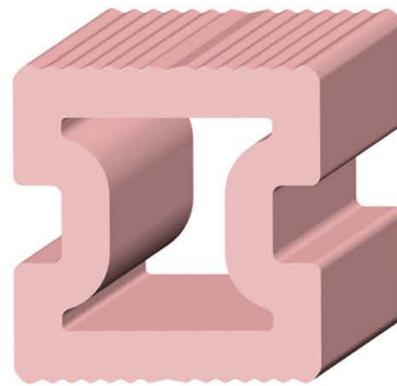


我们采用新的成型技术，突破传统工艺的局限，生产出直线度更好，壁厚更均匀，杂质更少的电晕机专用方形放电管。经测试，新的放电管可以承受超高压的冲击。除放电刀陶瓷管外，我们还提供相同材质的配套的陶瓷绝缘件和吊装配件。

Adopting new shaping process instead of traditional production method, our engineer makes the electrode tubes have a better straightness and uniform wall thickness, which can resist 20KV high voltage in application. Matched insulation accessories and hanging parts make the completed set of products is unified and stable in aspects of quality and performance.

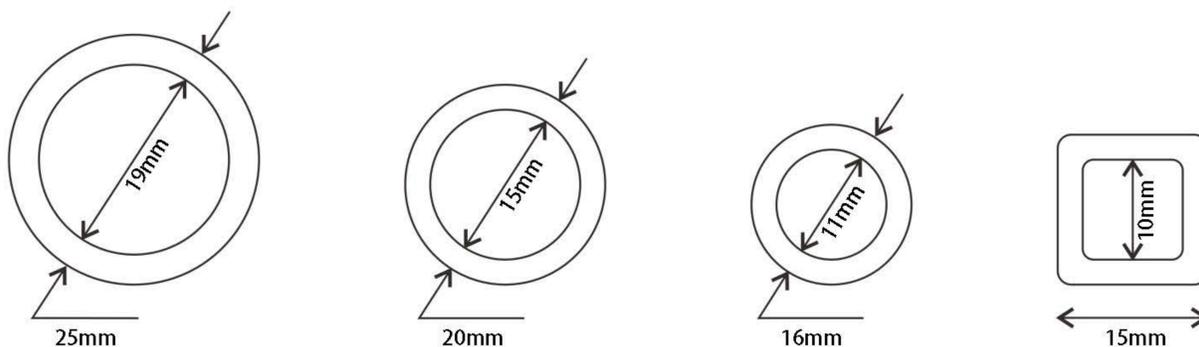
华飒自主研发的新型放电管，自带两个卡槽位，使得吊装放电管更简便，不需要再用胶粘配件，避免黏连处不牢固导致管子掉落；放电面设计成锯齿状，使得放电面积更大。放电面中线进行加深处理，使其起到了安装时校准的作用。管体设计成对称状，两面均可使用，提高了成品电极管的合格率。

HWACERAM® has independently developed a new discharge tube with two slots, which makes fixing the discharge tube easier. The user don't need to glue an extra accessory any more, it prevents the tube from falling due to the unstable connection. The discharge surface is designed serrated to make the discharge area larger. The center line of discharge surface is deepened to make it play the role of calibration during installation. The tube body is symmetrical and reversible. This design improves the qualified rate of finished electrode tube.



专利产品双面对用电晕机镀膜机专用氧化铝陶瓷放电棒（工字型）
Patented Reversible Ceramic Discharging Electrode Tube

自主研发双面用氧化铝陶瓷放电管实用新型专利证书
Certificate of Patent for Reversible Ceramic Electrode Tube Utility Model



长度区间：500mm | 50mm | 1000mm | 1250mm | 1500mm | 1650mm | 2000mm
Length Range

其他常用电晕机放电管现货规格
Other Popular Specification of Ceramic Electrode Tube



高纯度高密度氧化铝板适用于高端应用,如光伏、半导体和显示设备行业。其优异的绝缘、耐腐蚀和酸碱性以及高温下不易变形、化学性能稳定的特点,使其在先进工业生产中起到承托和隔档作用;耐磨刚玉陶瓷衬板以氧化铝为主体材料,辅加其它配料,经过高温烧结而成,广泛应用于火电、钢铁、冶炼、机械、煤炭、矿山、化工、水泥、港口码头等企业的输煤、输料系统、制粉系统、排灰、除尘系统等一切磨损大的机械设备上;陶瓷基板已成为电力电子电路结构的基本材料和具有电气绝缘的互连技术支撑,其导热系数高,软焊性好,附着力强;氧化锆板具有优良的耐磨性,可用于精密仪器的摩擦零部件;氧化锆增韧氧化铝陶瓷板硬度高、重量低、韧性好、防弹能力强,广泛应用于防弹衣、车辆和飞机等装备的防护装甲中。

我们采用注浆、干压以及等静压工艺,配以CNC,平面的精加工处理,可为客户提供多种材质,不同形状,性能优异的陶瓷板材。

High purity and density alumina plate(tile) is feasible for high-end application such as photovoltaic, semiconductor and display equipment industries. It hardly deforms easily at high temperature and is corroded by acid and alkali. Due to the advantages as well as its excellent insulation and chemical stability make alumina plate(tile) used as supporter and spacer. Abrasion-resistant corundum ceramic liner plate with alumina as the main material, supplemented with other ingredients, sintered at high temperature, is widely used in coal, material handling system, powder making system, ash discharge, dust removal system and other large wear mechanical equipment in thermal power, iron and steel, smelting, machinery, coal, mining, chemical industry, cement, port terminal and other application. Ceramic substrate has become the basic material of power electronic circuit structure and interconnection technology with electrical insulation, high thermal conductivity, excellent solderability and high adhesion. Zirconia tile is used in the rubbed position of precision instruments due to its excellent abrasion resistance. Zirconia toughened alumina ceramic plates with high hardness, low weight, good toughness and high ballistic resistance are widely used in protective armor for equipment such as bulletproof vests, vehicles and aircraft. We make different plates and tiles of different materials in various shapes by casting, dry pressing, iso pressing, CNC and flatting process.



陶瓷棒具有优异的耐腐蚀性，长期日照、降雨、潮湿等因素对其品相的损伤并不大。同时，陶瓷棒具有良好的酸碱稳定性，并且热稳定性能好，加工强度和硬度极高。这些优点确保陶瓷棒即使是在恶劣的工作环境中依然保持良好的性能。我们还提供棒材表面的抛光和上釉处理，使其表面光滑，减小摩擦力并易于清洁。

Ceramic rod gets excellent corrosion resistance. Long-term sunshine, rainfall, humidity or other weather factors do little effect and damage on the rods` surface, not even ultraviolet ray can change the rod`s color. Meanwhile, ceramic rod has acid and alkali stability, thermal stability, high machining strength and hardness. These advantages make sure that rods are competent in severe operating condition. We also supply polishing and glazing treatment on the rod`s surface, which make rods smooth and easy to clean.

氧化铝 ALUMINA				
工艺 TECHNOLOGY	直径 DIAMETER (mm)	长度 LENGTH (mm)	直径 DIAMETER (mm)	长度 LENGTH (mm)
挤出 EXTRUSION	1	≤1000	8	≤2500
	1.5		10	
	2	≤1500	12	
	2.5		14	
	3	≤2500	16	
	3.5		17	
	4		20	
	4.5		25	
	5		—	
	6		—	

氧化铝 ALUMINA			氧化锆 ZIRCONIA		
工艺 TECHNOLOGY	直径 DIAMETER (mm)	长度 LENGTH (mm)	工艺 TECHNOLOGY	直径 DIAMETER (mm)	长度 LENGTH (mm)
等静压 ISO PRESS	15-120	≤650	干压&等静压 DRY PRESS ISO PRESS	1-100	≤300

▲
棒材产品工艺及常规尺寸
Process and Regular Size of Rods Inventory



炉管的用途是作为各种实验电炉的内衬，主要是将发热元件与被烧试物质隔开、封闭加热区和放置被烧试物质。炉管应用范围广泛，涉及各行各业高温试验分析仪器设备如：煤炭实验分析仪器设备、冶金粉料实验分析仪器设备、化学玻璃行业实验分析仪器设备等。其最大特点是:在高温下耐腐蚀，抗氧化，防渗漏，真空性好。管壁厚度均匀,直线度好,公差小，高度绝缘，适合于1650度以下使用。

Alumina pipe is mainly used as lining of electric furnace to separate the heating element from burned material and seal the heating zone. Alumina pipe from ADceram is widely used in applications of equipment for coal, powder metallurgy and chemical glass test and analysis. Experiencing sufficient sintering, our pipes get resistance to corrosion and oxidation in high temperature as well as leakproof feature. The pipes are good at straightness, accuracy and electrical insulation, and qualified under 1650°C.

常用氧化铝炉管规格
Standard Alumina Furnace Pipe Size

材料 MATERIAL	直径 DIAMETER (mm)	长度 LENGTH (mm)	直径 DIAMETER (mm)	长度 LENGTH (mm)
95% 99% 99.5% 99.7% Alumina	30	≤2000	75	≤2000
	32		80	
	35		85	
	40		90	
	45		95	
	50		100	
	55		110	
	60		120	
	65		120-260	≤1000
70				



我们生产外径6-14mm常规规格的点火电极用陶瓷绝缘管，在制作过程中监管每个细小环节，严格控制管子的直线度和公差。管体外面镀有高端骨质瓷专用釉料，这种釉料光亮、细腻、光滑而且易于清洗。

Straightness and tolerance of ignition electrode tube are strictly controlled. With special glaze typically used in high-grade porcelain tableware on the surface, the tube looks bright and smooth like glass, which resists dirty and is easy to be cleaned up.

公差 ≤ ±0.3mm
Tolerance ≤ ±0.3mm

直线度 ≤ 1‰
Straightness ≤ 1‰

耐电压 20KV/DC
Withstand Voltage 20KV/DC

耐温 1500°C
Temperature Resistance 1500°C

点火电极陶瓷外套常用规格
Frequently Used Size of Ceramic Bushing

表面处理 SURFACE TREATMENT	外径x内径 ODxID (mm)	长度 LENGTH (mm)	表面处理 SURFACE TREATMENT	外径x内径 ODxID (mm)	长度 LENGTH (mm)
未上釉 PLAIN	6x3.2	2000	上釉 GLAZED	6x3.2	1600
	8x4			8x4	
	10x4			10x4	
	12x4			12x4	
	14x4			14x4	
	14x5.5			14x5.5	



先进陶瓷材料具有机械强度高,硬度大,高频介电损耗小,高温绝缘电阻高,耐化学腐蚀性和导热性良好等优良综合技术性能等优势。我们采用优质原料,针对不同产品采用不同的工艺,配合多种加工设备,生产出高品质,高精度,更耐用的产品,为化工、冶金、军工、航天、煤炭、铸造、热处理等行业供应大批量产品。

Advanced ceramic materials have the advantages of high mechanical strength, high hardness, low dielectric loss at high frequency, high insulation resistance at high temperature, chemical resistance, good thermal conductivity and other excellent comprehensive technical properties.

We use high-quality raw materials and multiple technologies, with a variety of processing equipment, to supply numerous qualified, accurate and durable products for chemical, metallurgy, military, aerospace, coal, casting, heat treatment and other industries.



莫来石产品不含游离硅、高岭土和活性氧化铝，并且热膨胀系数小，使用寿命长。莫来石产品的主要特点是优良的高温承载能力和良好的热稳定性。适用于黑色、灰色铸件,各种合金铸件, 金银珠宝, 金属装饰铸造, 和锂电池等行业。

Mullite products are free of unbonded silicon, kaolin and activated alumina, and get small coefficient of thermal expansion and supply longer service life.

The main features of mullite products are excellent load capability at high temperature and good thermal stability. It is suitable for black and grey casting, all kinds of alloy casting, gold and silver jewelry, metal decoration casting and other industries.

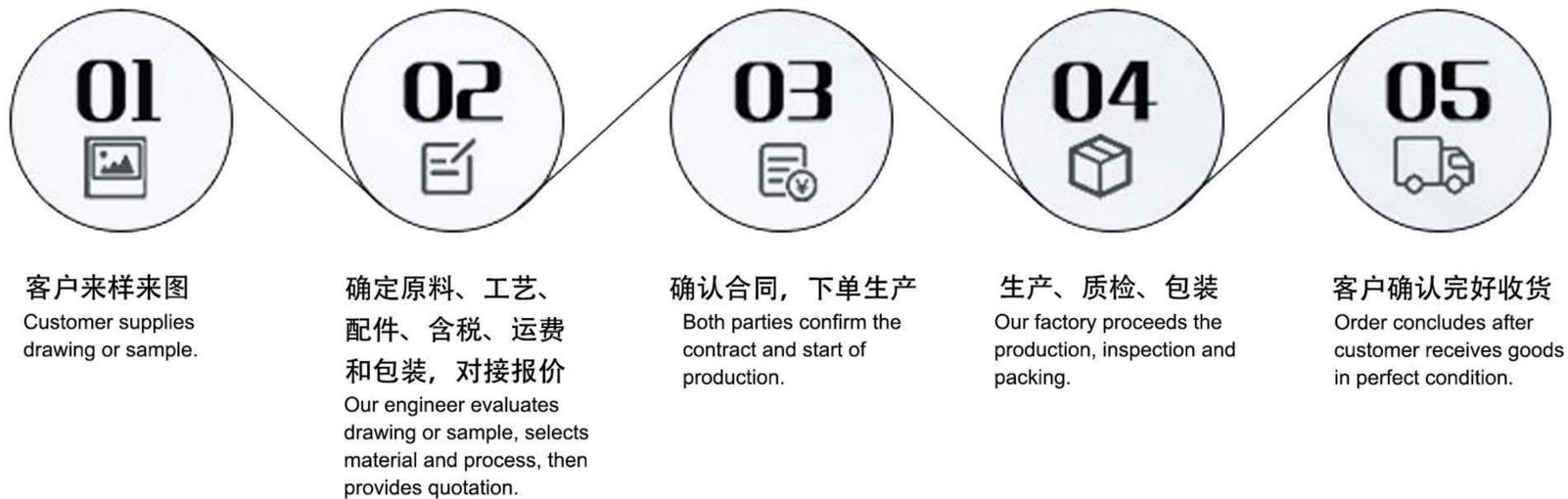
各型号莫来石产品理化参数对比
Physical and Chemical Parameters of Mullite Products

指标 Quota	产品 Product	单位 Unit	烧结莫来石 Sintered Mullite				烧结刚玉莫来石 Sintered corundum mullite
			SM65	SM70	SM75	SM80	SCM
	AL ₂ O ₃	%	64	68	74	78	80
	Fe ₂ O ₃	%	1.2	1.2	0.	0.8	0.5
	耐火度 Refractoriness	°C	1790	1790	1790	1810	1830
	显示孔率 Display Aperture Ratio	%	18	20	18	18	18
	体积密度 Bulk Density	g/cm ³	2.5	2.5	2.60	2.70	2.8
	常温耐压强度 Normal Temperature Compressive Strength	Mpa	55	60	65	70	70
	0.2Mpa荷重软化温度 0.2Mpa Load Softening Temperature	°C	1560	1580	1650	1700	1700
	重烧线变化率(1500°C*2h) Reburning Line Rate of Change (1500°C*2h)	%	+0.1 -0.4	+0.1 -0.2	+0.1 -0.2	+0.1 -0.2	+0.1 -0.1

我们提供（刚玉）莫来石盖板、承烧板、匣钵、坩埚、炉管、电炉丝缠绕管等耐火材料产品。

We supply mullite and corundum mullite cover board, load bearing board, sagger, crucible, furnace tube, electric furnace wire supportor, etc.

定制流程 CUSTOMIZATION PROCESS



服务承诺 COMMITMENT

- 提供材质方案，并设计出图。

We provide plan for material selection and product design.

- 24小时客服在线服务，快速响应。

24-hours online service with quick response is supplied for customer.

- 免费样品试用。

Free sample is prepared for test.

- 客户定制产品的图纸严格保密，不外泄。

The drawings of customized products are strictly kept as confidential and will not be breached.

- 按照图纸及合同所示精度标准验收出货。

Our warehouse inspects finished goods according to the accuracy standards shown in the drawing and contract.

- 出货采用出口级别包装。如产品在运输过程中发生破损，我们全责承担。

We take full responsibility for any damage that occurs in transit.

- 非生产问题导致的产品偏差，我们为您免费修理。

We are willing to modify the deformation caused by any way except for production.

- 我们为客户提供一对一终身专属服务。

We provide a dedicated customer service for each customer.

温馨提示 TIPS

- 工业陶瓷品因其特殊性，故行业内均无质保期服务。请您于收到货品后的第一时间验货，如有破损，请拍照保留证据，并与我们联系。

Due to the special nature of industrial ceramics, there is no warranty service in the industry. Please check the goods in the first time after receiving the goods, If there is damage, please take pictures to retain evidence and contact us.

- 定制产品和非标产品几乎无库存，并且陶瓷品生产时间很难压缩，请您预留提前量再下单。

Customized products and non-standard products are almost out of stock, and it is difficult to compress the production time of ceramic products, so please set aside time before placing an order.

- 产品公差和使用方法、环境影响着产品的最终价格。如实提供这些信息会为您带来最优性价比产品。

Product tolerances, usage and environment affect the final price of the product.

Providing the information truthfully will bring you the cost-effective products.

- 除库存产品外，生产有最小起定量要求。未达到起订量的情况下，我们会酌情增加价格。

There is a minimum starting quantity required for production, except for stock items. Prices will be increased at our discretion if the starting quantity is not met.

本画册未涉及到的事宜和问题，均可联系我们的工作人员获取。
Regarding matters and questions not covered in this brochure,
please contact our staff for answer.

ECO-FRIENDLY

秉持绿色生产，可持续发展的理念，关心生产更关爱家园

唐山市路南爱德赛拉陶瓷材料有限公司/唐山华飒新材料科技有限公司
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