

豫华电熔

YUHUA FUSED CAST

电熔刚玉制品专业制造商

PROFESSIONAL MANUFACTURER
OF FUSED CAST
CORUNDUM PRODUCTS



河南省豫华电熔科技有限公司

HENAN YUHUA FUSED CAST REFRACTORY CO.,LTD

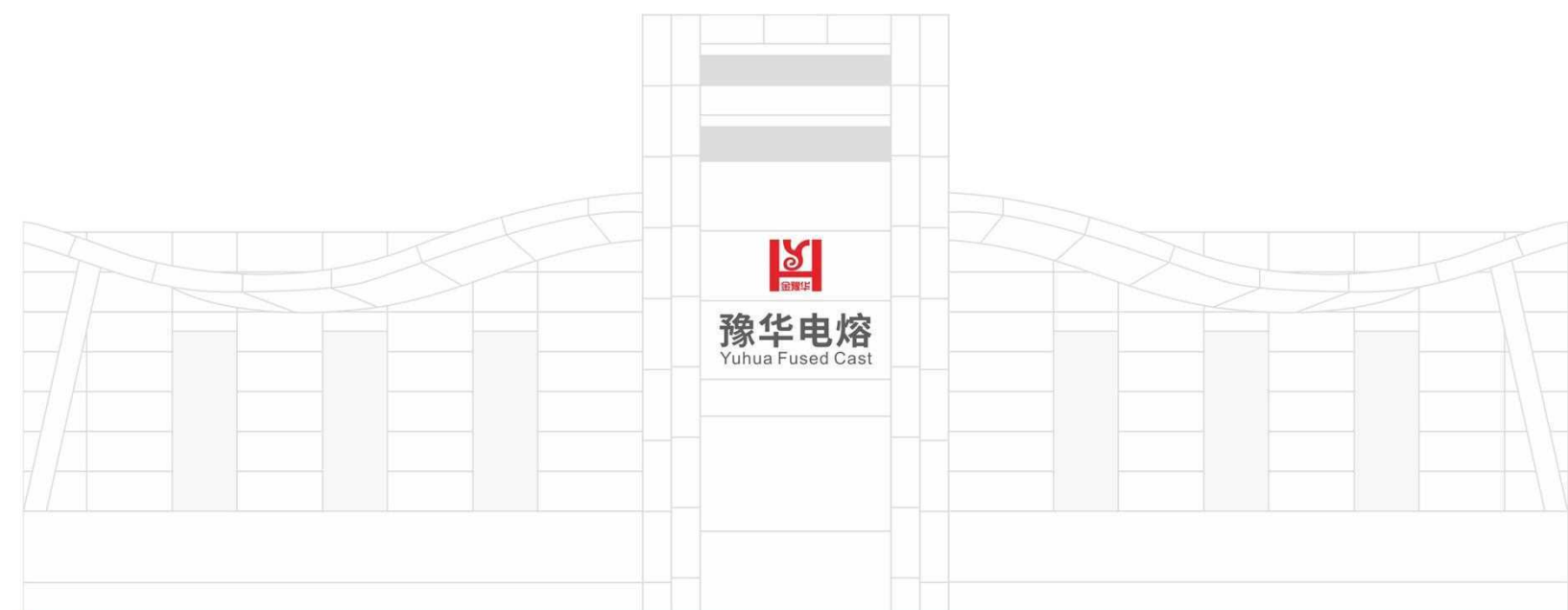
地址: 河南省新密市超化工业园内
邮箱: admin@yhrefractories.com
电话: 0371-6923 5369
网站: www.hnyhdr.com
邮编: 452385

Add: The Industry Park,XinMi City, Henan Province
E-mail: admin@yhrefractories.com
Tel: 0371-6923 5369
Web: www.hnyhdr.com
Post Code: 452385

联系人: 吕怀超 15936288819 contact way : Lv huaichao Tel : +86 15936288819

邮箱 : sales01@yhrefractories.com E-mail:sales01@yhrefractories.com lvhuaichao@gmail.com

web:www.yhrefractories.com



河南省豫华电熔科技有限公司

HENAN YUHUA FUSED CAST REFRACTORY CO.,LTD



豫华电熔·品质铸就

YUHUA FUSED CAST·QUALITY CASTING

《玻璃熔窑通用设计规范》起草单位

《玻璃熔窑用耐火材料动态下抗玻璃液侵蚀试验方法》起草单位

Contents

河南省豫华电熔科技
有限公司

Henan Yuhua Fused Cast
Refractory Co.,ltd.

电熔刚玉制品
专业制造商

Professional Manufacture Of
Fused Cast Corundum Products

品质为本
信誉至上

Quality Oriented
Reputation First

Since2003 >

实力豫华

Strength Yuhua

企业篇

Enterprise Section

企业简介/ Company Introduction.....	P05
发展历程/ Development History	P07
企业文化/ Corporate Culture.....	P09
制造流程/ Manufacturing Process	P11
合作共赢/ Win Win Cooperation	P13
六大检查保障/ Six Major Inspection Guarantees....	P15

品质铸就

Quality Casting

产品篇

Products Section

检测中心/ Testing Center.....	P19
产品展示/ Product Display.....	P21
浇铸方法/ Casting Method.....	P37
检测报告/ Test Report.....	P41
产品应用场景/ Product Application Scenarios.....	P43
营销网络/ Marketing Network	P45
售后服务/ After-sale Service	P47

同心致远

Concentric Distance

发展篇

Development Section

发展观/ Outlook On Development.....	P51
----------------------------------	-----

01

实力豫华

STRENGTH YUHUA

企业篇

Enterprise Section

豫华电熔深耕于电熔耐材行业二十余年，以全球眼光、战略思维为引领，不断追求卓越与创新，力求为玻璃企业提供优质的电熔刚玉制品；助力玻璃行业持续进步与发展。

Yuhua Fused Cast had been deeply involved in the fused cast refractory industry for more than 20 years, guided by a global perspective and strategic thinking, constantly pursuing excellence and innovation, and striving to provide high-quality fused cast corundum products for glass enterprises; Assist in the continuous progress and development of the glass industry.

20⁺



豫华电熔深耕玻璃窑炉用熔铸刚玉耐火材料20多年为每一座玻璃窑炉应用提供定制化方案。

Yuhua Fused Cast is used for deep cultivation of glass kilns. More than 20 years of fused zirconia corundum refractory materials. Provide solutions for every glass kiln application. Customized solutions.

30⁺



豫华电熔坚信创新发展才是硬道理。拥有自主研发专利技术30多项，以满足玻璃制造商的各种需求。

Yuhua Fused Cast Believing in innovation and development is the fundamental principle. We have over 30 independently developed patented technologies to meet the various needs of glass manufacturers.

60⁺



拥有68人的技术服务团队，协助客户解决3D设计、选材、施工、运行、维护等问题。

With a technical service team of 68 people, we assist clients in solving problems such as 3D design, material selection, construction, operation, and maintenance.

20000⁺



拥有三条熔铸刚玉生产线，年生产能力20000多吨，并参与起草《玻璃熔窑通用设计规范》、《玻璃熔窑用耐火材料动态下抗玻璃液侵蚀试验方法》等。

Having three fused alumina production lines with an annual production capacity of over 20000 tons, and participating in Drafting the "General Design Specification for Glass Melting Kilns" and "Refractory Materials for Glass Melting Kilns" Test method for resistance to glass liquid erosion under dynamic conditions of materials, etc.

48000⁺



公司总部拥有两大生产基地，建筑面积48000余平方米，并拥有国内先进的检验检测设备。

The company headquarters has two major production bases. Building area of over 48000 square meters. And it has advanced domestic inspection and testing equipment.



COMPANY INTRODUCTION 公司简介



河南省豫华电熔科技有限公司，成立于2003年，是一家致力于电熔锆刚玉系列生产和销售的高新技术企业。公司位于河南省新密市超化工业园区，建筑面积48000余平方米，现有员工280余人。专业技术人才68人，通过多年的稳健发展，豫华电熔在行业建立良好的声誉和较高的市场知名度。

公司主要产品有氧化法熔铸AZS-33#、36#、41#和 α - β 刚玉制品，其产品广泛应用于浮法玻璃、光伏玻璃、瓶罐玻璃、医用玻璃、特种玻璃等各种玻璃窑炉。公司秉承“全过程质量管理”理念，通过精细化生产流程和专业检测设备，确保每一件产品高标准要求。豫华电熔坚持精工制造，持续技术创新，不断为客户创造更大价值。

质量和信誉是豫华矢志追求的企业理念。自成立以来，豫华电熔始终坚持以客户需求为导向，以质量为本，以信誉为生命，为全球客户提供优质的产品和服务。公司相继获得国家科技型企业、郑州市专精特新企业、河南省创新型中小企业、行业最具影响力品牌、河南省知名品牌等，累计申请专利30余项，产品远销俄罗斯、韩国、德国、印度、巴基斯坦等国家和地区。

展望未来，豫华电熔将秉承“质量、诚信、务实、团结、创新”价值观，“品质为本，信誉至上”的服务理念，不断提升企业的核心竞争力，以双赢为驱动力，为全球玻璃工业提供更加优质的电熔刚玉制品。

Henan Yuhua Fused Cast Refractory Co., Ltd. Established in 2002, is a high-tech enterprise dedicated to the production and sales of the electric fusion zirconia corundum series. The company is located in Chaohua Industrial Park, Xinmi City, Henan Province, construction area has 48000 square meters and currently employing more than 280 people. There are 68 professional and technical talents, and through years of steady development, Yuhua Fused Cast has established a good reputation and high market awareness in the industry.

The company's main products include oxidation casting AZS-33 #, 36 #, 41 #, and α - β Corundum products are widely used in various glass kilns such as float glass, photovoltaic glass, bottle glass, medical glass, and special glass. The company adheres to the concept of "whole process quality management" and ensures high standard requirements for each product through refined production processes and professional testing equipment. Yuhua Fused Cast adheres to precision manufacturing, continuous technological innovation, and continuously creates greater value for customers.

Quality and reputation are the corporate philosophy that Yuhua is committed to pursuing. Since its establishment, Yuhua Fused Cast has always adhered to customer demand orientation, quality as the foundation, and reputation as the life, providing high-quality products and services to global customers. The company has successively obtained national technology oriented enterprises, specialized, refined, special and new enterprises in Zhengzhou City, innovative small and medium-sized enterprises in Henan Province, the most influential brand in the industry, and well-known brands in Henan Province. It has applied for more than 30 patents and its products are exported to countries and regions such as Russia, South Korea, Germany, India, and Pakistan.

Looking ahead to the future, Yuhua Fused Cast will adhere to the values of "quality, integrity, pragmatism, unity, and innovation" and the service concept of "quality first, reputation first", continuously improve the core competitiveness of the enterprise, and take win-win as the driving force to provide higher quality electric fused corundum products for the global glass industry.

DEVELOPMENT HISTORY 发展历程

2003年

河南省豫华电熔耐火材料有限公司成立；
Henan Yuhua Fused Cast Refractory Co.,Ltd. was established.

2015年

原厂址因煤矿沉陷重新选址建立生产一线，自然重组成立河南省豫华电熔科技有限公司；
The original factory site was rebuilt due to coal mine subsidence. Select a site to establish a production line. Natural restructuring established Henan Province Yuhua Electric Melting Technology Co., Ltd.;

2017年

公司取得“三大体系认证”；同年产品出口土耳其、越南、巴基斯坦；

The company has obtained "three major system certifications"; In the same year, the products were exported to Türkiye, Vietnam and Pakistan;

2018年

公司积极推进“绿色低碳”可持续发展理念，获得“能源管理体系认证”证书；产品出口德国、印尼、韩国、埃及等国家；

The company actively promotes the concept of "green and low-carbon" sustainable development and has obtained the "Energy Management System Certification" certificate; The products are exported to countries such as Germany, Indonesia, South Korea, Egypt, etc;

2019年

公司荣获“纳税先进企业”、“创新型中小企业”称号

The company has been awarded the titles of "Advanced Taxpaying Enterprise" and "Innovative Small and Medium sized Enterprise"

2020年

二线生产车间筹建并投产；公司积极推行安全生产标准化建设；企业荣获“高新技术企业”称号，合作客户遍布全国29个省市自治区；

Establish and put into operation a second line production workshop; The company actively promotes standardized construction of safety production; The enterprise has been awarded the title of "High tech Enterprise", and its cooperative clients are located in 29 provinces, cities, and autonomous regions across the country;

2021年

德国老客户复购日产90吨电炉；5月ERP企业管理系统上线，标志着企业信息化管理水平跨上新台阶；

Old German customers repurchase a 90 ton electric furnace with a daily output; The launch of the ERP enterprise management system in May marks a new level of enterprise information management;

2022年

公司荣获“国家科技型中小企业”、“郑州市专精特新企业”称号；

The company has been awarded the title of "National Science and Technology Center Enterprise, Zhengzhou Specialized, Refined, Special and New Enterprise";

2023年

公司二线新办公楼开工并投入使用；企业成功跻身电熔耐材行业纳税排行榜第四名。董事长荣获“郑州市优秀企业家领航计划”称号；

The new office building on the second line of the company has started construction and is now in use; The company has successfully entered the fourth place in the tax ranking of the electric melting refractory industry. The chairman was awarded the title of "Zhengzhou Excellent Entrepreneur Navigation Plan";

2024年

公司三线生产车间筹建投产，年生产能力突破20000多吨

The company's third line production workshop is under construction and put into operation, with an annual production capacity exceeding 20000 tons

CORPORATE CULTURE 企业文化

● 企业愿景/ Corporate Vision

铸造精工品质，成为位居行业前列的电熔刚玉制品企业
Casting precision quality, becoming a leading fused cast corundum product enterprise in the industry

● 企业使命/ Corporate Mission

做让客户信赖、员工依靠、社会认可的高品质电熔刚玉制品制造商和品牌商
To become a high-quality manufacturer and brand of fused alumina products that customers trust, employees rely on, and society recognizes

● 企业价值观/ Corporate Values

质量、诚信、务实、团结、创新
Quality, integrity, pragmatism, unity, and innovation

● 企业作风/ Enterprise Style

踏实稳健、敬业负责、简明高效、坚决执行
Solid and steady, dedicated and responsible, concise and efficient, and resolute in execution



服务理念
service idea

品质为本 信誉至上
Quality first
reputation first



人才理念
Talent concept

以人为本 尊重关爱 共创共享
Putting people first
respecting, caring
co creating, and sharing



质量理念
Quality concept

100-1=0

HONORARY PATENT 荣誉专利

创新驱动发展 荣誉见证卓越

Innovation driven development honor witnesses excellence

《玻璃熔窑通用设计规范》起草单位

《玻璃熔窑用耐火材料动态下抗玻璃液侵蚀试验方法》起草单位



MANUFACTURING PROCESS

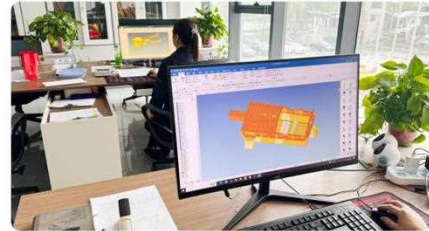
电熔锆钢玉制造流程

16道关键生产工序 品质严苛把控

Strict quality control of 16 key production processes

致力于延长
玻璃窑炉使用寿命

COMMITTED TO EXTENDING
THE SERVICE LIFE OF GLASS KILNS



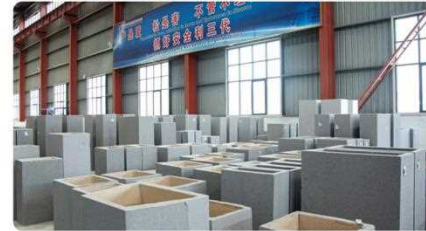
3D图纸绘制

01



3D数控裁模

02



一体模砂型制作

03



原材料取样检测

04



自动化配料系统

05



高温熔炼浇铸

06



成品砖取样检测

12



成品砖加工验收

11



精切细磨

10



半成品出保温箱验收

09



保温退火

08



炉内料取样化学检测

07



雷达探伤仪检测

13



立体组装 编号喷码

14



组装整体尺寸验收

15



包装发运

16

WIN WIN COOPERATION 合作共赢

精工匠造 客户见证
Seiko Craftsmanship
Precision Work



国内客户验货 Domestic customer inspection



国外客户验货 Overseas customer inspection



国外合作客户 Foreign cooperative clients



国外合作伙伴 Foreign partners



国内客户验货 Domestic customer inspection



国外客户技术交流 Technical exchange with foreign clients



国外合作伙伴 Foreign partners



国外客户技术交流
Technical exchange with foreign clients



国外客户洽谈签约
Foreign clients negotiate and sign contracts



国外客户验货 Overseas customer inspection

六大检测保障/Six major testing guarantees

高科技检测设备 确保质量无忧

High tech testing equipment ensures worry free quality

01 原料二次检测 | Secondary testing of raw materials

豫华产品核心原料精选澳大利亚锆英砂，每批次经过化学分析验收合格后方能入库；其次在原料投入生产前，所有原料进行二次成分检验，确保所使用的原材料始终保持在高品质状态。

The core raw materials of Yuhua products are selected from high-quality Australian zircon ($ZrSiO_4$), and each batch can only be stored for future use after passing chemical analysis and acceptance; Secondly, before the raw materials are put into production, all raw materials undergo secondary ingredient testing to ensure that the raw materials used are always in a high-quality state.

02 熔铸过程数据实时监控 | Secondary testing of raw materials

电炉熔炼过程中，电炉熔化控制是关键。豫华通过智能化技术，对电炉熔铸全过程实时监控，最大程度保障熔融质量稳定。

In the process of electric furnace melting, the control of electric furnace melting is crucial. Yuhua uses intelligent technology to monitor the real-time data of the entire process of electric furnace melting and casting, ensuring the stability of melting quality to the greatest extent possible.

03 熔铸过程化学成分分析 | Chemical composition analysis of the casting process

原料经过高温熔化后，熔铸完成立即取样。检测人员通过高精度的原子吸收分光光度计及X射线荧光光谱仪进行化学分析，以确保产品的化学成分能准确无误地满足客户指标要求。

After the raw materials are melted at high temperatures, samples will be taken immediately during the casting process. Testing personnel conduct chemical analysis using high-precision atomic absorption spectrophotometers to ensure that the chemical composition of the product accurately meets customer requirements.

04 半成品检验 | Inspection of semi-finished products

检验人员通过对半成品外观、尺寸、化学成分等检验，鉴别、分选、剔除不合格毛坯，并决定该产品或该批产品是否接收。保证不合格的半成品不转入下道工序；半成品检验是豫华产品质量控制的重要工序，能够有效预防或减少不合格的产生。

Inspectors identify, sort, and remove unqualified blanks by inspecting the appearance, size, chemical composition, and other aspects of semi-finished products, and decide whether to accept the product or batch of products. Ensure that unqualified semi-finished products are not transferred to the next process; Semi finished product inspection is an important process for quality control of Yuhua products, which can effectively prevent or reduce the occurrence of nonconformities.

05 成品外观尺寸及理化指标检验 | Inspection of appearance dimensions and physical and chemical indicators of finished products

成品外观尺寸检验：所有出厂产品使用精密的测量工具对其外观(是否存在缝隙、裂纹，以及表面的平整度)、重量、加工精度及尺寸进行详细测量、确保产品没有外观缺陷和瑕疵。理化指标检验：采取高精检测设备对抗、侵蚀显气孔率、玻璃相析出率、气泡析出率、玻璃相渗出量等关键指标进行检测，为玻璃熔窑的稳定运行提供坚实保障。

Finished product appearance dimension inspection: All factory products are measured in detail using precision measuring tools to determine their appearance (whether there are gaps, cracks, and surface flatness), weight, processing accuracy, and dimensions, ensuring that the products have no appearance defects or flaws. Physical and chemical index testing: high-precision testing equipment is used to test key indicators such as resistance, corrosion porosity, glass phase initial precipitation temperature, bubble precipitation rate, and glass phase exudation, providing a solid guarantee for the stable operation of the glass melting furnace.

06 产品内部结构探伤 | Internal structure inspection of the product

引进美国手持式无损探伤仪，在不损坏产品的前提下，通过雷达检测，对每一件产品内部结构进行扫描，使其在出厂前，能够快速、精准掌握其内部结构情况，杜绝不良产品，改成杜绝不良产品出厂。

Introducing a handheld non-destructive testing instrument from Germany, which scans the internal structure of each product through radar detection without damaging the product. This enables quick and accurate understanding of the internal shrinkage before leaving the factory, eliminating defective products and ensuring product qualification rates

六大检测保障

01

原料二次检测

02

熔铸过程数据实时监控

06

产品内部结构探伤

03

熔铸过程化学成分分析

05

成品外观尺寸及理化指标检验

04

半成品检验

02

品质铸就 QUALITY CASTING

产品篇

Product section

豫华电熔以质量为核心，技术创新为驱动，16道关键生产工序、6大品质检测保障，全过程质量管理体系，精益求精铸就品质，助力玻璃窑炉健康稳定运行。

Yuhua Fused Cast takes quality as its core, technological innovation as its driving force, 16 key production processes, 6 quality inspection guarantees, and a full process quality management system. We strive for precision casting to ensure quality and assist in the healthy and stable operation of glass kilns.

精心 细心 用心
The elaboration, caution and attention
高端 品质 永存
will guarantee the survive of high-end quality

杜绝不合格产品出厂
The forbidden of unqualified products leaving the work
是质量保证的最基本要求
is the fundamental requirement to the quality assurance

TESTING CENTER 检测中心

高科技检验检测 全面保障产品质量

High tech inspection and testing comprehensively guarantee product quality



物理性能检测 Physical Performance Testing



化学性能检测 Chemical Performance Testing



美国进口雷达探伤仪 Imported radar flaw detector from the United States

PRODUCT DISPLAY

产品展示

玻璃电熔炉

Glass Electric Melting Furnace

主要包括提高热效率、减少环境污染、降低原料挥发、保持出料量稳定、占地面积小、建设投资少、节能效果明显、减少挥发成分的挥发量、保护环境、节约原料。

It mainly includes improving thermal efficiency, reducing environmental pollution, reducing raw material volatilization, maintaining stable discharge volume, occupying a small area, requiring less construction investment, achieving significant energy-saving effects, reducing the volatilization of volatile components, protecting the environment, and saving raw materials.



28m³高硼硅玻璃电炉上层池壁



13.5m³化妆品瓶玻璃电炉



22m³中硼咖啡壶玻璃电炉



35m³玻璃器皿电炉



德国日产90吨玻璃器皿电炉



日产3吨玻璃微珠小电炉

一窑四线料道



特种玻璃实验炉



玻璃瓶罐电炉料道末端



马蹄焰玻璃窑
Horseshoe flame glass kiln

窑炉因火焰在熔窑内呈马蹄形回转而得名，广泛应用于大中型玻璃厂中。马蹄焰玻璃窑的设计科学、节能、经济、高效，占地面积小、施工周期短的优点。马蹄焰燃烧工艺每30分钟自动换向交替一次（PLC控制）。窑炉设计熔池深、高火焰空间、大长宽比、高蓄熔比、增设预燃室等技术，使得火焰稳定性强、铺展均匀，有效提高了玻璃熔化的质量和效率！

Kilns are named after the horseshoe shaped rotation of flames inside the melting furnace and are widely used in large and medium-sized glass factories. The design of the horseshoe flame glass kiln is scientific, energy-saving, economical, efficient, with the advantages of small footprint and short construction period. The horseshoe flame combustion process automatically changes direction and alternates every 30 minutes (controlled by PLC). The design of the kiln includes techniques such as deep melt pool, high flame space, large aspect ratio, high storage ratio, and the addition of a pre combustion chamber, which ensure strong flame stability and even spreading, effectively improving the quality and efficiency of glass melting!





78m²玻璃器皿生产线



国外68m²横火焰一窑三线



52m²化妆品瓶生产线



65m²玻璃棉生产线（铬刚玉配套）

全氧燃烧玻璃窑炉

Full Oxygen Combustion Glass Kiln

全氧燃烧（富氧燃烧）技术的燃烧模式为燃料+氧气。随着制氧技术的发展及电力成本的降低，玻璃熔窑全氧燃烧技术在环保、节能、产量、质量、减少设备投资和节省厂房场地等诸多方面均有优异的表现！全氧燃烧窑炉不需要换向操作，可有效减少粉尘的排放、能节省配合料，同时可减轻飞扬粉尘对碲顶及胸墙等部位的侵蚀；全氧燃烧技术已经在光伏玻璃、玻璃纤维、玻璃器皿、药用玻璃、微晶玻璃等生产领域中广泛应用，其优异的提高玻璃质量、节能减排效果得到了充分验证！

The combustion mode of oxygen enriched combustion technology is fuel+oxygen. With the development of oxygen production technology and the reduction of electricity costs, glass melting furnace full oxygen combustion technology has excellent performance in many aspects such as environmental protection, energy saving, output, quality, reducing equipment investment, and saving factory space! Full oxygen combustion kilns do not require directional operations, which can effectively reduce dust emissions, save materials, and reduce the erosion of the roof and chest walls by flying dust; Full oxygen combustion technology has been widely used in the production fields of photovoltaic glass, glass fiber, glassware, medicinal glass, microcrystalline glass, etc. Its excellent effects in improving glass quality, energy conservation and emission reduction have been fully verified!



62m²全氧燃烧瓶罐生产线



58m²玻璃器皿生产线



85m²泡花碱生产线



52m²微晶玻璃生产线

58m²全氧燃烧玻璃棉生产线



62m²全氧燃烧玻璃窑炉AZS大碇



56m²全氧燃烧中硼硅玻璃窑炉生产线



国外36m²全氧燃烧+电助熔玻纤生产线



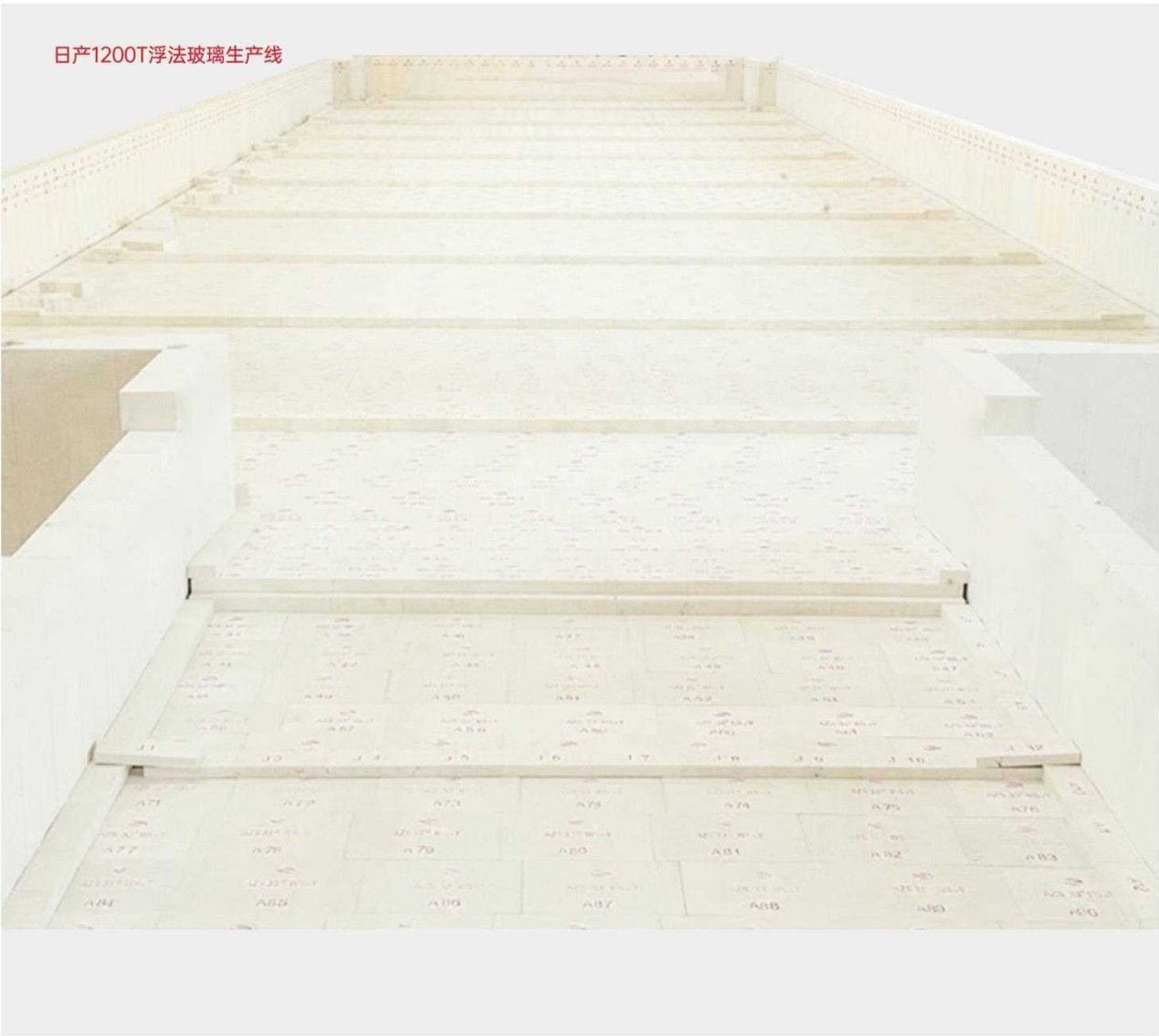
52m²全氧燃烧药用拉管生产线



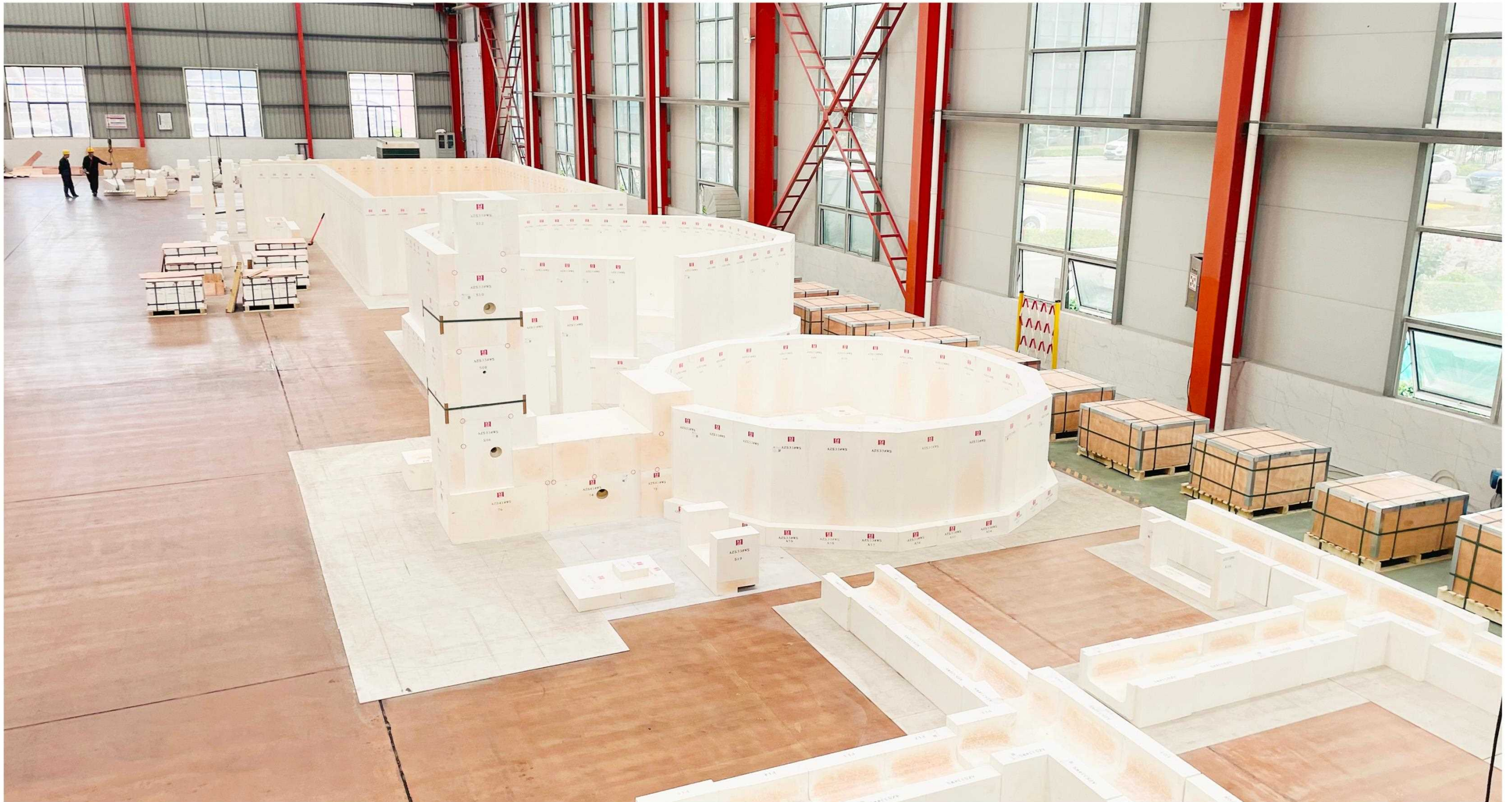
浮法玻璃窑炉
Float Glass Furnace

浮法玻璃熔窑属于横火焰蓄热式池窑，是用于生产平板玻璃的特种设备。将玻璃原材料加热至软化状态，在锡浴上浮起然后冷却成型。浮法玻璃的生产过程需要在高温下进行，具有生产效率高、能耗低、产能大、玻璃产品品质均匀，生产过程实现科学化管理和全线机械自动化程度高等特点。

Float glass melting furnace belongs to the transverse flame thermal storage tank furnace, which is a special equipment used for producing flat glass. Heat the glass raw material to a softened state, float it on a tin bath, and then cool it to form. The production process of float glass needs to be carried out at high temperatures, which has the characteristics of high production efficiency, low energy consumption, large production capacity, uniform quality of glass products, scientific management of the production process, and high degree of mechanical automation throughout the line.



成品组装车间 Finished Product Assembly Workshop



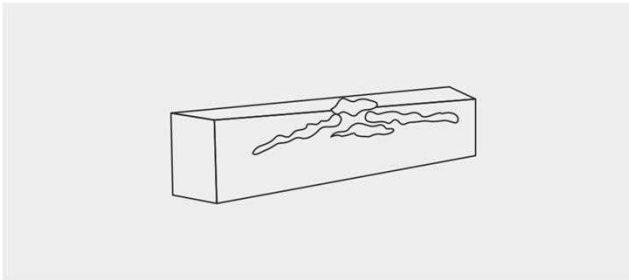
FOUR MAJOR CASTING METHODS

四大浇铸方法

PT—普通浇铸 PT - ORDINARY CASTING

通常的浇铸方法，制品的缩孔位于铸口的下部，多用于熔化池的上部结构等侵蚀不严重的部位。

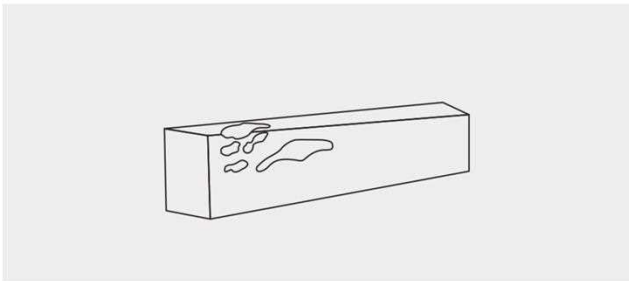
The usual casting method involves the shrinkage of the product located at the lower part of the casting mouth, often used in areas with less severe erosion such as the upper structure of the melting pool.



QX—倾斜浇铸 QX - Inclined Casting

采用倾斜浇铸方法，制品的缩孔偏置于下端部，主要用做池壁砖。

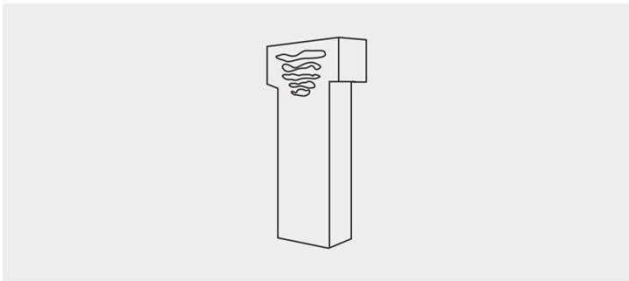
The inclined casting method is adopted, and the shrinkage hole of the product is offset at the lower end, mainly used as pool wall bricks.



WS—无缩孔浇铸 WS - Non Shrinkage Casting

切除了铸造砖的缩孔部分的无缩孔制品，主要用流液洞、窑坎、池壁拐角、铺面等侵蚀严重的部位

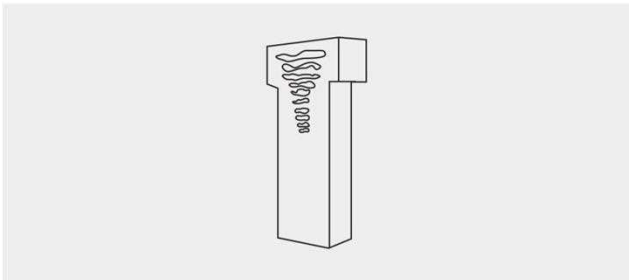
The non shrinkage products that have removed the shrinkage part of the cast bricks mainly use areas with severe erosion such as flow holes, kiln ridges, pool wall corners, and paving surfaces.



ZWS—准无缩孔浇铸 ZWS - Quasi Non Shrinkage Casting

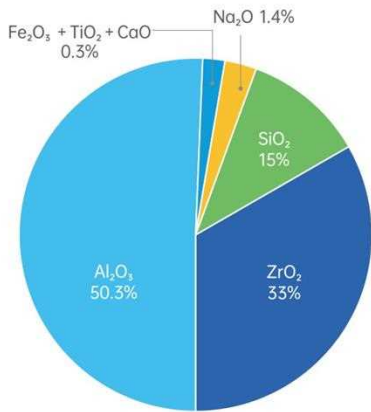
类似于无缩孔浇铸，基本上切除了所铸造砖缩孔部分，主要用做池壁砖。

Similar to non shrinkage casting, it basically removes the shrinkage part of the cast bricks and is mainly used as pool wall bricks.

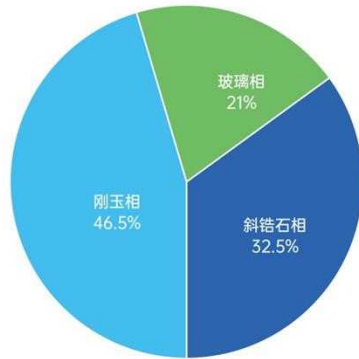


33#电熔锆刚玉产品

33 # Fused Cast Zirconia Corundum Products



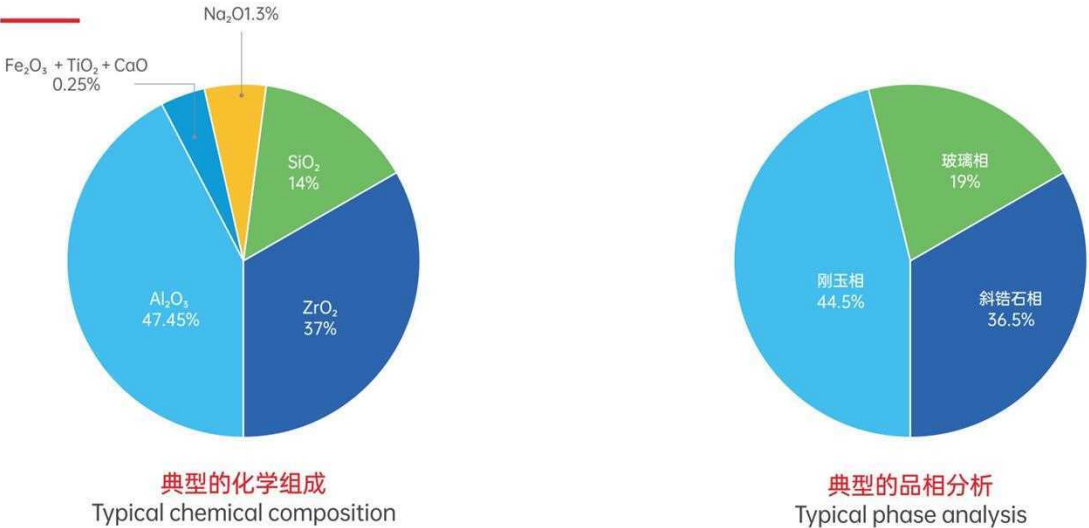
典型的化学组成
Typical chemical composition



典型的品相分析
Typical phase analysis

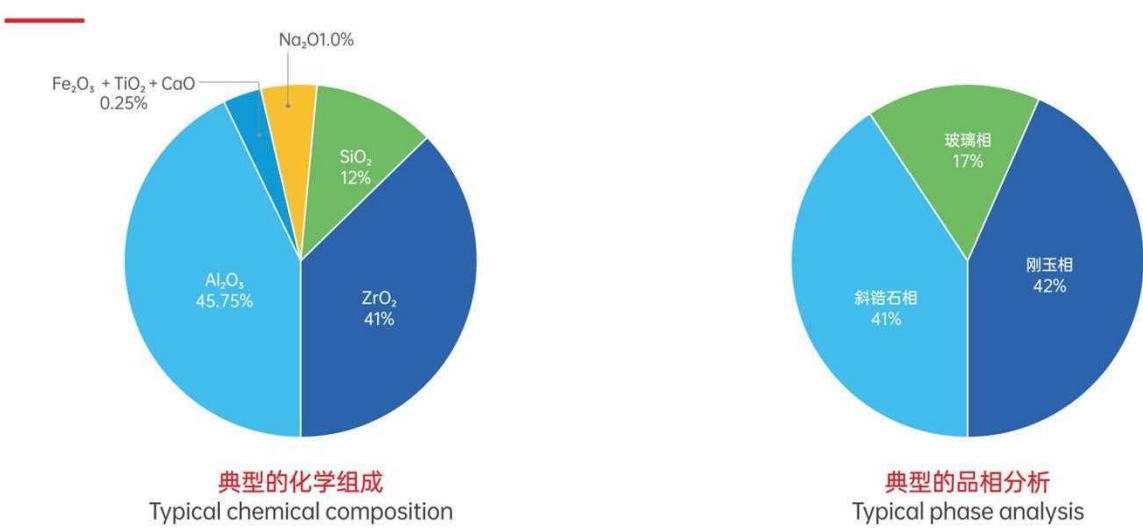
项目 Item		指标 index
		AZS33-Y
化学成分% Chemical composition%	Al ₂ O ₃	余量 residual
	ZrO ₂	≥33.00
	SiO ₂	≤15.00
	Na ₂ O	≤1.45
	(Fe ₂ O ₃ +TiO ₂ +CaO+MgO+Na ₂ O+K ₂ O)	≤2.00
	(Fe ₂ O ₃ +TiO ₂)	≤0.25
体积密度 Bulk density		≥3.8g/cm ³
显气孔率 Apparent porosity		≤1.3%
静态下抗玻璃液侵蚀速度(普通钠钙玻璃, 1500℃×36h) Static resistance to glass liquid erosion speed (ordinary sodium calcium glass, 1500 °C x 36h)		≤1.50mm/24h
玻璃相初析温度 Initial crystallization temperature of glass phase		≥1400℃
气泡析出率(普通钠钙玻璃, 1300℃×10h) Bubble precipitation rate (ordinary sodium calcium glass, 1300 °C x 10h)		≤2.0%
玻璃相渗出量(1500℃×4h) Glass phase exudation amount (1500 °C x 4h)		≤2.0%
容量a/(kg/m³) Bulk density	PT、QX	>3450
	ZWS	>3700
	WS	>3750

36#电熔锆刚玉产品
36 # Fused Cast Zirconia Corundum Products



项目 Item		指标 index
		AZS36-Y
化学成分% Chemical composition%	Al ₂ O ₃	余量 residual
	ZrO ₂	≥36.00
	SiO ₂	≤13.00
	Na ₂ O	≤1.40
	(Fe ₂ O ₃ +TiO ₂ +CaO+MgO+Na ₂ O+K ₂ O)	≤2.00
	(Fe ₂ O ₃ +TiO ₂)	≤0.25
体积密度 Bulk density		≥3.90g/cm ³
显气孔率 Apparent porosity		≤0.9%
静态下抗玻璃液侵蚀速度(普通钠钙玻璃, 1500℃×36h) Static resistance to glass liquid erosion speed (ordinary sodium calcium glass, 1500 °C x 36h)		≤1.30mm/24h
玻璃相初析温度 Initial crystallization temperature of glass phase		≥1400℃
气泡析出率(普通钠钙玻璃, 1300℃×10h) Bubble precipitation rate (ordinary sodium calcium glass, 1300 °C x 10h)		≤1.5%
玻璃相渗出量(1500℃×4h) Glass phase exudation amount (1500 °C x 4h)		≤3.0%
容重a/(kg/m³) Bulk density	PT、QX	>3550
	ZWS	>3800
	WS	>3850

41#电熔锆刚玉产品
41 # Fused Cast Zirconia Corundum Products



项目 Item		指标 index
		AZS41-Y
化学成分% Chemical composition%	Al ₂ O ₃	余量 residual
	ZrO ₂	≥41.00
	SiO ₂	≤12.00
	Na ₂ O	≤1.30
	(Fe ₂ O ₃ +TiO ₂ +CaO+MgO+Na ₂ O+K ₂ O)	≤2.00
	(Fe ₂ O ₃ +TiO ₂)	≤0.25
体积密度 Bulk density		≥4.00g/cm ³
显气孔率 Apparent porosity		≤0.8%
静态下抗玻璃液侵蚀速度(普通钠钙玻璃, 1500℃×36h) Static resistance to glass liquid erosion speed (ordinary sodium calcium glass, 1500 °C x 36h)		≤1.20mm/24h
玻璃相初析温度 Initial crystallization temperature of glass phase		≥1410℃
气泡析出率(普通钠钙玻璃, 1300℃×10h) Bubble precipitation rate (ordinary sodium calcium glass, 1300 °C x 10h)		≤1.0%
玻璃相渗出量(1500℃×4h) Glass phase exudation amount (1500 °C x 4h)		≤3.0%
容重a/(kg/m³) Bulk density	PT、QX	>3650
	ZWS	>3900
	WS	>3950

锆质和AZS捣打料、热补料、密封料

Zirconium and AZS ramming materials, hot patching materials, sealing materials

产品 Products	指标 Behaviors	ZrO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	容重 Bulk Density g/cm ³	最大颗粒度 Maximum Grain Size mm	水份 Moisture %	常温耐压强度 Cold Crushing Strength Mpa	烧成收缩 Burning Shrinkage%	使用温度 Service Temperature℃
ZSR-60锆英石捣打料 ZSR-60 Zirconia Ramming Mix		60±2	4-7	0.5	3.40	4	3-5	45	-1	400-1600
AZSC-30电熔AZS热补料 AZSC-30 AZSC-30 electric melting AZS hot patching material		29±1	47	0.5	3.00	5	6-8	75	-1.2	100-1500
AZSS-40AZS-40 密封料 AZSS-40 AZS-40 Sealing Patch		40±2	38±2	0.5	2.90	1	3-5	50	-1	100-1500

AZS 火泥、锆质火泥

AZS Mortar , Zirconia Mortar

产品 Products	指标 Behaviors	耐火度 ℃ Refractoriness ℃	最大颗粒度 mm Maximum Grain Size mm	灼失后化学组成 % Chemical Composition Burning %			水份 % Moisture %	用途 Applications
				Al ₂ O ₃	ZrO ₂	Fe ₂ O ₃		
AZSM-30 电熔AZS-30火泥 AZSM-30 Fused AZS-30 Mortar		1710	0.5	47	≥28	0.5	19-22	砌筑再烧结电熔 AZS 砖 Laying bonded AZS bricks
MZM-20 锆莫来石火泥 MZM-20 Zircon Mullite Mortar		1730	0.5	57	≥18	0.5	19-22	砌筑 烧结锆莫来石砖 Laying zircon mullite bricks
ZSM65 锆英石火泥 ZSM65 Zirconia Mortar		1790	0.5	/	64±1	0.5	17-20	砌筑 锆英石砖 Laying zircon bricks
ZSM63 锆英石火泥 ZSM63 Zirconia Mortar		1790	0.5	/	63±1	0.5	16-19	气硬性 用于要求 快干早强场合 Hydraulic set ,used where quick setting is required

火泥的化学成份要与所砌砖的耐火砖相匹配。

Mortar must match the corresponding bricks in chemical composition while being used.

国检中心检验报告

National Inspection Center Inspection Report

中国国检测试控股集团股份有限公司 国家建筑材料工业耐火材料产品 质量监督检验测试中心	
检测报告	
报告编号: WT2024F06A01027	第 1 页 共 3 页
样品名称: 电熔锆英石砖ZSR60	检测类别: 委托检测
委托单位: 河南省豫华电熔科技有限公司	型号规格: 150mm×100mm×120mm
生产单位: 河南省豫华电熔科技有限公司	样品编号: ——
收样日期: 2024 年 04 月 25 日	样品状态: 满足检测要求
检测日期: 2024 年 04 月 25 日 - 05 月 14 日	样品数量: 1 块
检测依据: +检测依据详见数据页+	
检测项目: +检测项目详见数据页+	
检测项目: +检测项目详见数据页+	
检测结论:	
备注: (无异常项)	
批准: 李亚利 审核: 薛飞 编制: 李亚利	
检测机构地址: 北京市通州区望京东里 1 号	电话: 010-01167081 邮编: 100024
ctc 国检集团	

中国国检测试控股集团股份有限公司 国家建筑材料工业耐火材料产品 质量监督检验测试中心				
检测报告			第 2 页 共 3 页	
报告编号: WT2024F06A01027				
检测项目	检测条件	检测结果		检测依据
		单值	平均值	
堆积密度 (g/cm³)	—	3.82, 3.81, 3.80	3.81	GB/T 2997-2015
显气率 (%)	—	0.8, 1.1, 1.2	1.0	
烧成收缩率 (%)	1300℃ ± 4h	1.12, 0.88, 0.92	0.98	JC/T 499-2015(2017) 附录 B
静态下热震抵抗性 (热震系数 (mm/2h))	1300℃ ± 30s 普通耐火砖	1.52, 1.46, 1.48, 1.50	1.49	JC/T 806-2013(2017)
气态析出率 (%)	1300℃ ± 10h 普通耐火砖	0.4		JC/T 428-2013(2017)
玻璃相析出率 (%)	和称	1410		JC/T 805-2013(2017)
ZrO ₂ ·nH ₂ O (%)	—	34.06		
Na ₂ O (%)	—	1.00		
K ₂ O (%)	—	0.18		
MgO (%)	—	0.056		
CaO (%)	—	0.076		GB/T 21114-2019
Fe ₂ O ₃ (%)	—	0.074		
TiO ₂ (%)	—	0.028		
SiO ₂ (%)	—	14.11		
Al ₂ O ₃ (%)	—	50.08		
备注: 1. 检测地点: 望京。				
检测机构地址: 北京市通州区望京东里 1 号 电话: 010-01167081 邮编: 100024				
ctc 国检集团				

中国国检测试控股集团股份有限公司 国家建筑材料工业耐火材料产品 质量监督检验测试中心			
检测报告			
报告编号: WT2024F06A01027		第 3 页 共 3 页	
检测项目	检测条件	检测结果 收缩率 平均收缩系数 (%) (×10 ⁻³ /℃)	检测依据
热膨胀	室温~100℃	0.04	4.23
	室温~200℃	0.10	5.36
	室温~300℃	0.16	5.78
	室温~400℃	0.23	6.04
	室温~500℃	0.30	6.21
	室温~600℃	0.37	6.34
	室温~700℃	0.44	6.51
	室温~800℃	0.55	7.01
	室温~900℃	0.64	7.32
	室温~1000℃	0.73	7.41
(以下空白)			
备注: 1. 检测地点: 望京。			
本报告结束			
检测机构地址: 北京市通州区望京东里 1 号		电话: 010-01167081	邮编: 100024
ctc 国检集团			

中国国检测试控股集团股份有限公司 国家建筑材料工业耐火材料产品 质量监督检验测试中心	
检测报告	
报告编号: WT2024F06A01026	第 1 页 共 3 页
样品名称: 电熔锆英石砖AZS30	检测类别: 委托检测
委托单位: 河南省豫华电熔科技有限公司	型号规格: 150mm×100mm×120mm
生产单位: 河南省豫华电熔科技有限公司	样品编号: ——
收样日期: 2024 年 04 月 25 日	样品状态: 满足检测要求
检测日期: 2024 年 04 月 25 日 - 05 月 14 日	样品数量: 1 块
检测依据: +检测依据详见数据页+	
检测项目: +检测项目详见数据页+	
检测项目: +检测项目详见数据页+	
检测结论:	
备注: (无异常项)	
批准: 李亚利 审核: 薛飞 编制: 李亚利	
检测机构地址: 北京市通州区望京东里 1 号	电话: 010-01167081 邮编: 100024
ctc 国检集团	

中国国检测试控股集团股份有限公司 国家建筑材料工业耐火材料产品 质量监督检验测试中心				
检测报告		第 2 页 共 3 页		
报告编号: WT2024F06A01026				
检测项目	检测条件	检测结果		检测依据
		单值	平均值	
堆积密度 (g/cm³)	——	4.12, 4.13, 4.08	4.11	GB/T 2997-2015
显气率 (%)	——	0.6, 0.4, 0.3	0.4	
烧成收缩率 (%)	1300℃ ± 4h	2.97, 2.56, 1.20	2.24	JC/T 499-2015(2017) 附录 B
静态下热震抵抗性 (热震系数)	1300℃ ± 30s 普通耐火砖	1.21, 1.18, 1.20, 1.13	1.18	JC/T 806-2013(2017)
气态析出率 (%)	1300℃ ± 10h 普通耐火砖	1.0		JC/T 428-2013(2017)
玻璃相析出率 (%)	和称	1410		JC/T 805-2013(2017)
ZrO ₂ ·nH ₂ O (%)	——	46.98		
Na ₂ O (%)	——	1.04		
K ₂ O (%)	——	0.096		
MgO (%)	——	0.071		
CaO (%)	——	0.046		GB/T 21114-2019
Fe ₂ O ₃ (%)	——	0.048		
TiO ₂ (%)	——	0.064		
SiO ₂ (%)	——	11.00		
Al ₂ O ₃ (%)	——	40.59		
备注: 1. 检测地点: 望京。				
检测机构地址: 北京市通州区望京东里 1 号 电话: 010-01167081 邮编: 100024				
ctc 国检集团				

中国国检测试控股集团股份有限公司 国家建筑材料工业耐火材料产品 质量监督检验测试中心			
检测报告		第 3 页 共 3 页	
报告编号: WT2024F06A01026			
检测项目	检测条件	检测结果 烧成收缩率 平均收缩系数 (%) (×10 ⁻³ /℃)	检测依据
热膨胀	室温~100℃	0.04	4.48
	室温~200℃	0.10	5.61
	室温~300℃	0.18	6.32
	室温~400℃	0.26	6.66
	室温~500℃	0.33	6.83
	室温~600℃	0.40	6.92
	室温~700℃	0.48	7.04
	室温~800℃	0.59	7.48
(以下空白)	室温~900℃	0.67	7.59
	室温~1000℃	0.72	7.38
备注: 1. 检测地点: 望京。			
本报告结束			
检测机构地址: 北京市通州区望京东里1号		电话: 010-01167081	邮编: 100024
ctc 国检集团			

PRODUCT APPLICATION SCENARIOS 产品应用场景

公司通过持续创新与质量管理，为浮法玻璃、光伏玻璃、日用玻璃、医药玻璃、特种玻璃等各种玻璃生产场景提供可靠、稳定的电熔刚玉产品及服务。满足玻璃企业多元化、个性化、定制化的需求。

The company provides reliable and stable fused alumina products and services for various glass production scenarios such as float glass, photovoltaic glass, daily glass, pharmaceutical glass, and special glass through continuous innovation and quality management. Meet the diversified, personalized, and customized needs of glass enterprises.



MARKETING NETWORK

营销网络

产品远销全球

20
多个国家

30
多个省市
自治区

出口国家	Export country	国内销售	Domestic sales
德国/Germany 土耳其/Türkiye 俄罗斯/Russia 白俄罗斯/Belarus 印度/India 巴基斯坦/Pakistan 越南/Vietnam 泰国/Thailand	吉尔吉斯斯坦/Kyrgyzstan 乌兹别克斯坦/Uzbekistan 印尼/Indonesia 韩国/Korea 埃及/Egypt 西班牙/Spain 墨西哥/Mexico	马来西亚/Malaysia 日本/Japan 法国/France 柬埔寨/Cambodia 缅甸/Myanmar 意大利/Italy	山东/shandong 河北/hebei 四川/sichuan 广东/guangdong 安徽/anhui 河南/henan 江苏/jiangsu 浙江/zhejiang 湖北/hubei 江西/jiangxi 湖南/hunan 福建/fujian 山西/shanxi 陕西/shaanxi 黑龙江/heilongjiang 贵州/guizhou 广西/guangxi 云南/yunnan 辽宁/liaoning 内蒙/neimeng 重庆/chongqing 甘肃/gansu 青海/qinghai 宁夏/ningxia

Business distribution, global products
sold in over 20 cities
and 10 countries worldwide

AFTER-SALE SERVICE 售后服务

品质为本 信誉至上 Quality First, Reputation First

以客户为中心，坚守品质与信誉的双向承诺，急客户之所急，想客户之所想，帮客户之所需；建立和客户共赢的服务理念，实施跟踪关注玻璃熔窑使用情况，为玻璃厂家提供高效、用心、优质的服务体验。

Putting customers at the center, adhering to the two-way commitment of quality and reputation, responding to their urgent needs, thinking about their thoughts, and helping them meet their needs; Establish a win-win service concept with customers, implement tracking and monitoring of glass furnace usage, and provide efficient, attentive, and high-quality service experience for glass manufacturers.



服务承诺

Service Commitment

30余人的服务团队，快速响应客户需求。国内客户投诉24小时给予回复。48小时内必须到达现场。同时，公司建立年度客户回访制度，每年对客户产品使用情况进行跟踪回访。

A service team of over 30 people, quickly responding to customer needs. Domestic customer complaints will be responded to within 24 hours. Must arrive at the site within 48 hours. At the same time, the company establishes an annual customer follow-up system to track and follow up on the usage of customer products every year.



03

同心致远

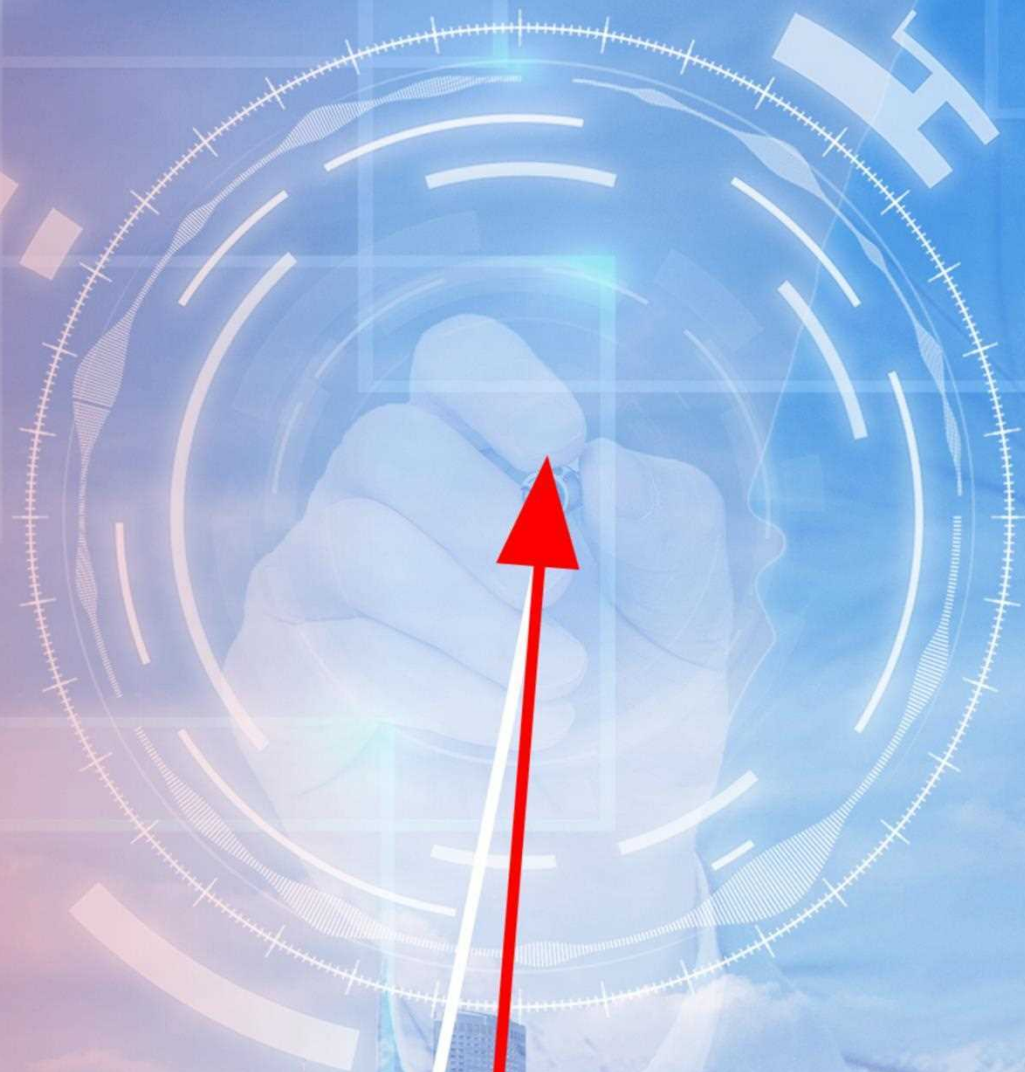
JOINING HANDS TO
ACHIEVE
FARSIGHTEDNESS

发展篇

Development Section

企业以稳健的步伐，积极履行对客户、员工和社会的责任，以“同心发展，共生共荣”的文化核心，携手并进，砥砺前行，奋力抒写豫华美好新华章。

With a steady pace, the enterprise actively fulfills its responsibilities to customers, employees, and society. With the cultural core of "concentric development, symbiosis, and mutual prosperity", we work hand in hand, forge ahead, and strive to express the beautiful new chapter of Yuhua.



OUTLOOK ON DEVELOPMENT 发展观

以企业愿景为目标，豫华团队为核心
依托品质不断改善升级，实现公司业务可持续发展

With the corporate vision as the goal and the Yuhua team as the core
Relying on continuous improvement and upgrading of quality to achieve sustainable development of the company's business



企业愿景 CORPORATE VISION



为实现“铸造精工品质，成为位居行业前列的电熔刚玉制品企业”长远目标而不懈奋斗。

To achieve the long-term goal of becoming a leading electric fused corundum product enterprise in the industry with precision casting quality And relentlessly strive.

豫华团队 YUHUA TEAM



人才是公司的核心，公司秉承“以人为本，关爱尊重，共创共享”的理念，让员工在豫华平台发光发热，绽放光芒。

To achieve the long-term goal of becoming a leading electric fused corundum product enterprise in the industry with precision casting quality And relentlessly strive.

持续改善品质 CONTINUOUSLY IMPROVING QUALITY



采用先进工艺技术和检验检测设备，鼓励员工自主参与日常的品质改善当中，不断提升产品质量，精益生产。

Adopting advanced process technology and inspection and testing equipment, encouraging employees to actively participate in daily quality improvement, continuously improving product quality, and lean production.

国际业务分布 INTERNATIONAL BUSINESS DISTRIBUTION



国际化既是公司层战略也是业务层战略；豫华将保持全球化视野，立足国内市场，让产品远销更多国家和地区。

Internationalization is both a company level strategy and a business level strategy; Yuhua will maintain a global perspective, focus on the domestic market, and export its products to more countries and regions.

可持续发展 SUSTAINABLE DEVELOPMENT



企业秉承稳健可持续的发展理念，关注员工个人发展，推进生产质量精细化管理，实现企业、员工、客户共赢发展。

The enterprise adheres to the concept of stable and sustainable development, pays attention to the personal development of employees, and promotes the refinement of production quality Transforming management to achieve win-win development for enterprises, employees, and customers.