

COMPANY PROFILE

2025

Jinheyuan Refractory Materials Co., Ltd. is a high-tech enterprise specializing in refractory materials for high-temperature industries. Integrating R&D, production, sales, and technical services, the company is committed to providing global customers with high-performance, long-lasting refractory solutions, driving industry development through superior quality and innovative technology.





HI THERE!

Welcome to Zhengzhou JHY Refractories Co., Ltd. We are a China-based manufacturer committed to delivering professional solutions and premium-quality refractory materials to high-temperature industries worldwide.

From raw material control to intelligent production, every step we take is focused on ensuring product consistency, performance, and durability.

Backed by a strong technical team and decades of experience, we aim to be your reliable global partner in building efficient and sustainable thermal systems.

Let's create heat-resistant excellence—together.

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A photograph of two people, a man and a woman, wearing blue work uniforms. They are looking at some industrial equipment in a factory or laboratory setting. The image is partially obscured by a large orange diagonal shape on the left side.

ABOUT US

Established in 1998, JINHEYUAN REFRACTORY is a high-tech manufacturer of advanced refractory materials for high-temperature industries.

We integrate R&D, production, and technical service to provide durable, high-performance solutions for cement, metallurgy, glass, and chemical sectors.

With over 20 years of experience, modern automated facilities, and global certifications, our products are trusted by leading companies across Asia and the Middle East. Committed to quality, innovation, and sustainable manufacturing, we help our clients achieve safer, more efficient operations in extreme temperature conditions.

OUR VISION

TO BE A GLOBAL LEADER IN SUSTAINABLE REFRACTORY INNOVATION, EMPOWERING INDUSTRIES TO THRIVE IN A CLEANER, CIRCULAR FUTURE.

Zhengzhou JHY Refractories is dedicated to advancing sustainable refractory technologies.

We develop low-carbon, non-fired materials that reduce environmental impact and support circular industrial practices across high-temperature sectors.

OUR MISSION

TO DELIVER TRUSTED REFRACTORY SOLUTIONS FOR HIGH-TEMPERATURE INDUSTRIAL APPLICATIONS.

With a strong focus on quality, innovation, and environmental responsibility, we provide reliable refractory solutions that meet the evolving needs of cement, lime, metallurgy, and waste recycling industries.

Our mission is to deliver materials that perform under pressure—and protect the planet in the process.

WHAT WE OFFER



Alumina-Based Refractories

Made from high-purity bauxite or synthetic raw materials, these bricks and monolithics exhibit excellent resistance to high temperatures, mechanical wear, and chemical attack.

They are widely used in rotary kilns, riser ducts, steel ladles, and incineration systems where strength and durability are critical.



Silica Refractories

Produced with high-grade quartzite and designed to maintain volume stability and strength at temperatures above 1600°C.

Ideal for coke ovens, glass tank regenerators, and hot blast stoves where thermal shock resistance and structural reliability are essential.



Magnesia Refractories

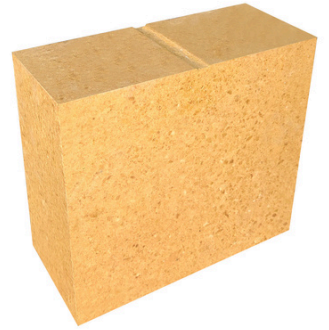
Composed of fused or sintered magnesia, sometimes combined with spinel or alumina, offering excellent resistance to basic slags and thermal cycling.

These refractories are key materials for lime kilns, non-ferrous smelting furnaces, and other applications with aggressive chemical environments.

Insulating Refractories

Lightweight bricks and castables formulated to reduce heat loss and improve furnace energy efficiency, while maintaining structural integrity at service temperatures.

Commonly used as backup layers or insulation linings in cement kilns, glass furnaces, and industrial boilers.



Castables & Monolithics

A wide selection of unshaped refractories including low-cement, ultra-low cement, and no-cement castables, as well as ramming and gunning mixes.

They provide flexible and rapid installation, suitable for complex geometries, maintenance work, or tight construction schedules.



Customized Solutions & Special Shapes

Tailored materials developed according to specific working conditions, equipment geometry, and thermal requirements, including precast blocks and modular lining systems.

We work closely with customers to design materials that maximize lining performance, reduce downtime, and extend service life.



A COMPLETE PORTFOLIO OF REFRACTORY MATERIALS

OUR SERVICE

1. Customized Refractory Solutions

Tailored to Your Process. Built for Performance.

We develop bespoke refractory materials and application plans based on your unique industrial processes and operating conditions. Every solution is engineered to ensure maximum durability, energy efficiency, and operational reliability.

What you get:

Material selection based on process-specific needs

Application-specific formulations

Improved lifecycle and reduced maintenance downtime

2. Technical Support & Professional Consultation

Your Trusted Refractory Partner.

Our team of engineers and specialists provides end-to-end technical support — from material selection to installation guidance and post-installation performance optimization. We help you make informed decisions and solve on-site challenges efficiently.

Our support includes:

Application analysis and optimization

On-site technical guidance

Performance troubleshooting and improvement plans



3、 Engineering Design & Installation Services

From Concept to Commissioning.
We deliver comprehensive refractory engineering solutions, including lining design, structural calculations, installation support, and supervision. Our services are aimed at maximizing the performance and safety of your high-temperature equipment.

Service highlights:

CAD-based refractory lining design

Custom installation instructions and best practices

On-site supervision and project support

4、 Product Innovation & Sustainability Support

Smarter Materials. Greener Future.

We are committed to developing advanced, sustainable refractory materials that help you lower emissions, improve energy usage, and meet ESG targets. Our R&D team is constantly innovating to deliver better, cleaner, and more efficient materials.

Sustainability matters:

Low-carbon, recyclable refractory products

R&D-driven upgrades to boost efficiency

Long-term support for your green transformation

INDUSTRIES WE SERVE

CEMENT

JHY REF supply durable refractories for all key areas of the rotary kiln system — including the kiln hood, preheater, calciner, sintering zone, and cooler.

Our materials offer excellent thermal shock and alkali resistance, ensuring long service life and stable operation under high temperatures.



IRON & STEEL

JHY REF serves both integrated and mini-mill steel plants with high-performance refractory materials for blast furnaces, hot stoves, converters, EAFs, and refining furnaces. Our solutions withstand extreme thermal shock and chemical erosion, enhancing operational efficiency and furnace lifespan.

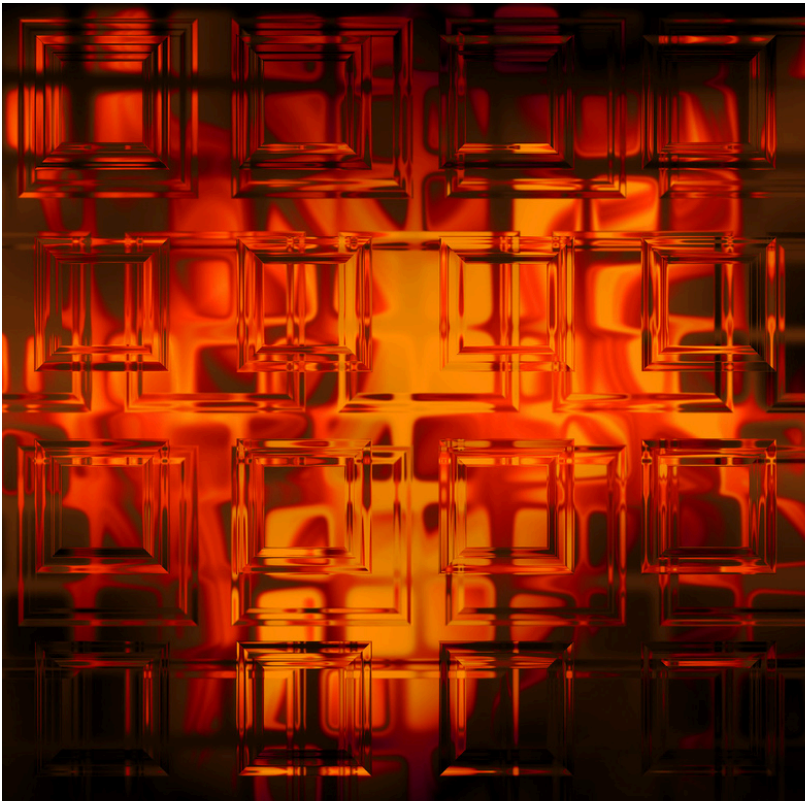
LIME

With years of experience in the lime industry, JHY REF supports shaft kilns, annular kilns, and rotary kilns with integrated services including material design, supply, and technical support. We have proven success in lime systems for steel industry applications.



GLASS

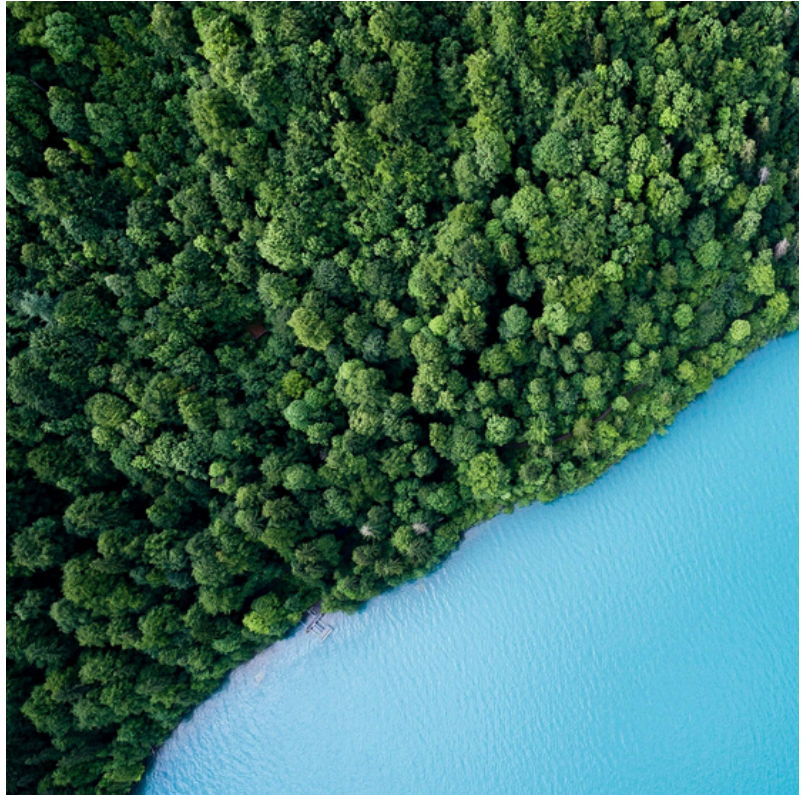
For the demanding conditions of glass furnaces, we offer high-density, high-purity refractory materials tailored to each section, including melting tanks, regenerators, and flue passages, ensuring operational stability and energy efficiency throughout the glass production process.



INDUSTRIES WE SERVE

METALLURGICAL WASTE RECYCLING

JHY REF focuses on high-temperature treatment systems for various types of metallurgical solid waste, including blast furnace dust, EAF dust, nickel- and chromium-containing hazardous residues, and aluminum ash. Backed by extensive on-site experience, we deliver customized refractory material solutions and complete system support to help clients achieve waste recycling and sustainable development goals.



NON-FERROUS

JHY REF supply refractory materials for melting furnaces, holding furnaces, and launders in aluminum, copper, and other non-ferrous applications.

Our products offer excellent resistance to molten metal and slag, along with strong thermal shock stability for safe, long-lasting performance.

WHY CHOOSE US

AT JINHEYUAN REFRACTORY, WE DON'T JUST DELIVER MATERIALS — WE DELIVER PEACE OF MIND.

1. PROVEN EXPERTISE

With over 20 years in refractory manufacturing and more than 30 national patents, we understand the real needs of high-temperature industries.

2. FULL-CHAIN INTEGRATION

With over 20 years in refractory manufacturing and more than 30 national patents, we understand the real needs of high-temperature industries.

3. TAILORED SOLUTIONS

We provide custom formulations and application support to meet the specific requirements of different industries and working conditions.

4. INTERNATIONAL STANDARDS

Certified to ISO 9001, ISO 14001, ISO 45001, and ISO 50001, our products meet the highest global benchmarks.

5. RELIABLE DELIVERY

With a modern supply chain and efficient logistics, we ensure on-time delivery for domestic and international customers.

6. SERVICE COMMITMENT

With a modern supply chain and efficient logistics, we ensure on-time delivery for domestic and international customers.

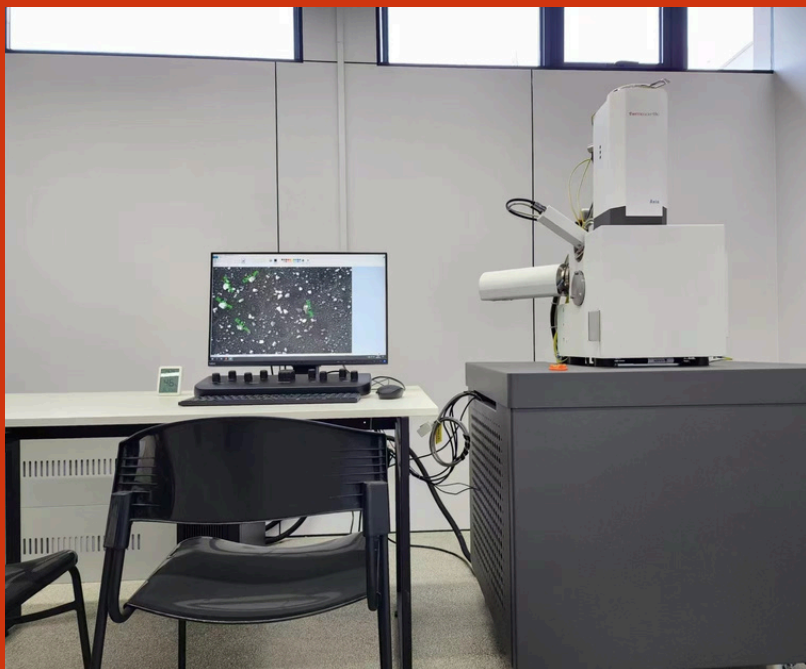
QUALITY ASSURANCE & RESEARCH AND DEVELOPMENT

At JHY REF, quality is built into every step — from raw material selection to final product. Our in-house laboratory is equipped with advanced testing instruments for chemical analysis, thermal shock testing, bulk density, and cold crushing strength.

This ensures that every batch of material meets both international standards and customer-specific requirements.

In addition to quality control, we are committed to continuous innovation.

Our R&D team focuses on improving product performance, developing energy-efficient materials, and supporting customized technical solutions for complex industrial needs.



COMPANY FACILITY OVERVIEW



The tunnel kiln firing workshop uses an advanced control system to ensure stable high-temperature sintering of refractory bricks. The process delivers consistent quality, excellent volume stability, and reliable thermal performance.



Our forming workshop is equipped with multiple automatic hydraulic presses, ensuring precise compaction of high-density refractory bricks.



By adopting intelligent automation, we achieve precise control and stable operations throughout the production process. This not only ensures product quality but also reflects our long-term commitment to reliability and innovation.



We maintain a well-organized warehousing system with ample inventory and fast logistics response, ensuring quick, accurate, and secure deliveries. Whether for regular or urgent orders, we respond promptly to keep operations smooth and reliable.

GLOBAL REACH



Our refractory products have been exported to a wide range of countries, including Thailand, Vietnam, Malaysia, Indonesia, Myanmar, Laos, and Oman. With consistent product performance and reliable service, we have earned the trust and recognition of customers across various international markets.

To better serve our global clientele and ensure efficient delivery, we have established strategic regional centers in Singapore, Malaysia, and the Democratic Republic of the Congo. These centers form a robust supply chain network that enhances our capability to provide localized support throughout Southeast Asia, the Middle East, and Africa.

Our customer base includes industry leaders from major global sectors, such as multinational cement groups, large-scale steel manufacturing consortia, and prominent non-ferrous metal smelting enterprises. Backed by extensive industry experience and strong technical support, we are committed to delivering reliable refractory solutions for high-temperature applications, helping our clients improve operational efficiency and achieve their sustainability goals.

GET IN TOUCH

IF YOU HAVE ANY QUESTIONS ABOUT OUR PRODUCTS OR SERVICES, OR WOULD LIKE TO REQUEST TECHNICAL INFORMATION OR QUOTATIONS, PLEASE FEEL FREE TO CONTACT US. OUR PROFESSIONAL TEAM IS READY TO ASSIST YOU PROMPTLY.

JHY REF IS COMMITTED TO PROVIDING HIGH-QUALITY REFRACTORY SOLUTIONS FOR HIGH-TEMPERATURE INDUSTRIES WORLDWIDE. WE LOOK FORWARD TO THE OPPORTUNITY OF WORKING WITH YOU AND CREATING LASTING VALUE TOGETHER.

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