

# **REFRACTORY MATERIALS**

DGC REFRACTORIES: ENGINEERED EXCELLENCE FOR INDUSTRIAL HEAT MANAGEMENT

# **POWERING AFRICA'S FUTURE:** INNOVATIVE ASSET INTEGRITY & INDUSTRIAL SOLUTIONS

www.dgc-africa.com

# **INTRO**

Welcome to **DGC Refractories**, a division of **DGC AFRICA**, where innovation meets industrial excellence. Since our inception, we have been at the forefront of refractory technology, continuously pushing boundaries to deliver superior solutions for the most demanding thermal management challenges across diverse industries.

Our journey began with a simple yet powerful vision: to revolutionize industrial heat management through cutting-edge refractory solutions. Today, we stand as a testament to that vision, offering not just products, but comprehensive partnerships that elevate operational efficiency, enhance sustainability, and drive innovation in every sector we serve.

# OUR TO EXCELLENCE COMMITMENT

At **DGC Refractories**, excellence is not just a goal; it's our standard operating procedure. We offer a comprehensive range of ISO 9001:2015 certified products, each designed with precision to provide innovative and sustainable refractory solutions.

Our state-of-the-art facilities are a marvel of modern engineering, featuring:

- Automated Production Systems: Ensuring consistency and precision in every product we manufacture.
- Energy-Efficient Kilns: Reflecting our commitment to environmental responsibility and sustainable production practices.
- Advanced Quality Control Laboratories: Equipped with cutting-edge technology to guarantee the highest standards of quality in every batch.

# OUR DEDICATION TO EXCELLENCE EXTENDS BEYOND OUR PRODUCTS. SINCE 1960.

Our research and development team has been at the helm of refractory Innovation, constantly exploring new materials, techniques, and applications to stay ahead of industry needs.

THIS COMMITMENT TO CONTINUOUS IMPROVEMENT ALLOWS US TO OFFER NOT JUST FIRST-CLASS PRODUCTS, BUT ALSO UNPARALLELED TECHNICAL SUPPORT SERVICES TO OUR VALUED CLIENTS.

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# STRATEGIC ALLIANCE WITH CNBM A GLOBAL POWERHOUSE



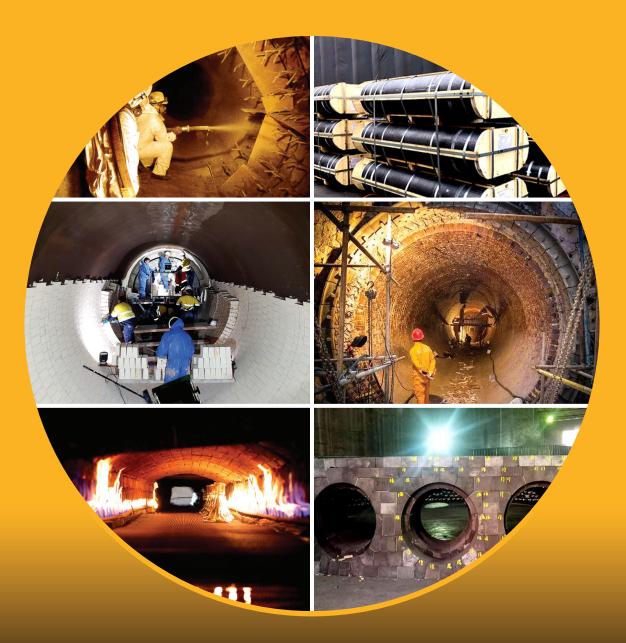
Our strategic alliance with CNBM International Corporation marks a significant milestone in our journey, propelling us to new heights of global expertise and capability. CNBM, ranking among the top 200 in the Fortune Global 500 companies, is not just a partner: it's a global powerhouse in the building materials industry.

### **KEY HIGHLIGHTS OF OUR CNBM PARTNERSHIP INCLUDE:**

- Access to World-Class Expertise: CNBM's position as a world leader in cement, glass fibre, lightweight building materials, and refractory materials enriches our knowledge base and capabilities.
- Enhanced Research & Development: Leveraging CNBM's extensive R&D facilities and expertise dating back to 1960, we're at the cutting edge of refractory technology.
- Global Best Practices: CNBM's international presence allows us to incorporate global best practices into our local operations, ensuring world-class standards in every product and service.
- Expanded Production Capabilities: With CNBM's vast production network, we can meet large-scale demands efficiently and effectively.
- **Comprehensive Solutions:** From raw materials to finished products, our alliance with CNBM enables us to offer end-toend solutions for all refractory needs.

This partnership embodies our commitment to delivering unparalleled value to our clients, combining local expertise with global resources to address the most complex industrial challenges.

# **PRODUCT RANGE**



# SHAPED REFRACTORIES

- Magnesia Bricks
- Magnesia-Carbon Bricks
- Silica Bricks
- Mullite Bricks
- Alumina Carbon Bricks
- Specialized Bricks

# **MONOLITHIC REFRACTORIES**

- Stemming Materials
- Castables
- Repairing Materials
- Magnesia Coating Mixes
- Dry Vibration Mixes

# FUNCTIONAL REFRACTORIES

- Slide Gate Mechanisms
- Ladle Upper & Lower Nozzles
- Well Blocks
- Permeable Bricks
- Long Nozzles & Submerged Nozzles
- Stoppers

# **GRAPHITE ELECTRODES**

OUR SHAPED REFRACTORIES ARE THE CORNERSTONE OF INDUSTRIAL HEAT MANAGEMENT, ENGINEERED TO WITHSTAND THE MOST EXTREME TEMPERATURES AND DEMANDING ENVIRONMENTS EACH BRICK IS A TESTAMENT TO TO OUR COMMITMENT TO QUALITY AND PERFORMANCE.

# **MAGNESIA** BRICKS

**Magnesia bricks** are the cornerstone of our refractory solutions, engineered to withstand the most demanding industrial environments. These bricks offer exceptional performance characteristics that make them indispensable in various high-temperature applications. Their superior resistance to basic slags ensures longevity in aggressive chemical environments, while their excellent thermal conductivity promotes efficient heat transfer, crucial for maintaining optimal process temperatures.

# **KEY FEATURES INCLUDE:**

- · Superior resistance to basic slags, enhancing longevity in corrosive environments
- Excellent thermal conductivity, ensuring efficient heat transfer
- Ideal for use in steel ladles, cement kilns, and glass furnaces, demonstrating versatility across industries



# **MAGNESIA-CARBON BRICKS**

Our **magnesia-carbon bricks** represent the pinnacle of refractory technology, designed to meet the extreme demands of modern steelmaking processes. These bricks combine the excellent slag resistance of magnesia with the thermal shock resistance of carbon, resulting in a product that excels in the most challenging conditions. Their enhanced slag penetration resistance significantly extends the operational life of furnace linings, reducing downtime and maintenance costs.

# **KEY ADVANTAGES INCLUDE:**

- Unparalleled thermal shock resistance, withstanding rapid temperature fluctuations
- Enhanced slag penetration resistance, extending lining life
- · Perfect for BOF converters and EAF furnaces, optimizing steelmaking operations





# **SILICA BRICKS**

Silica bricks are a testament to our commitment to providing specialized solutions for specific industrial needs. These bricks exhibit exceptional performance under high-temperature, high-load conditions, making them invaluable in applications where dimensional stability is crucial. Their excellent creep resistance ensures that they maintain their shape and integrity even under prolonged exposure to extreme heat and pressure.

## NOTABLE CHARACTERISTICS INCLUDE:

- High refractoriness under load, maintaining stability in extreme conditions
- **Excellent creep resistance,** preserving structural integrity over time
- Widely used in coke ovens and glass tanks, proving their versatility and reliability



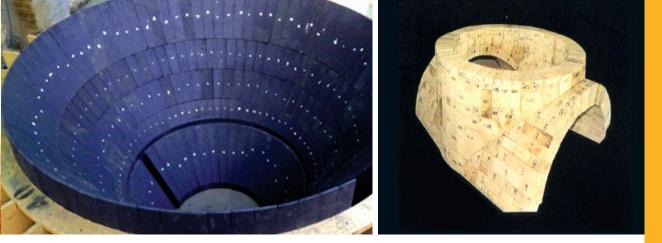
# **MULLITE BRICKS**

**Mullite bricks** are the epitome of versatility in high-temperature applications. These bricks offer a unique combination of thermal shock resistance and high-temperature strength, making them suitable for a wide range of industrial processes. Their stability at elevated temperatures ensures consistent performance in environments where other materials might falter.

## **KEY FEATURES INCLUDE:**

- Outstanding thermal shock resistance, adapting to rapid temperature changes
- High-temperature strength and stability, maintaining integrity in extreme conditions
- · Suitable for petrochemical furnaces and ceramic kilns, demonstrating broad applicability





# **ALUMINA CARBON BRICKS**

Alumina carbon bricks represent the cutting edge of refractory technology for steelmaking applications. These bricks combine the superior corrosion resistance of alumina with the thermal shock resistance of carbon, creating a product that excels in the harsh environment of steel ladles and converters. Their high strength at elevated temperatures ensures structural integrity throughout the steelmaking process.

## **KEY BENEFITS INCLUDE:**

- Superior corrosion resistance, withstanding aggressive slag attacks
- High strength at elevated temperatures, maintaining structural integrity
- · Ideal for ladle and converter linings in steelmaking, optimizing production efficiency



**SPECIALIZED BRICKS** 

Our range of specialized bricks showcases our commitment to innovation and our ability to address specific industry challenges. These advanced refractory solutions are tailored to meet the unique demands of particular applications, pushing the boundaries of what's possible in industrial heat management.

### **KEY OFFERINGS INCLUDE:**

- Si3N4 Bonded SiC: Engineered for high-wear applications in non-ferrous metal processing, these bricks offer unparalleled abrasion resistance and thermal shock resistance.
- **Sialon Bonded Corundum:** Designed for exceptional performance in aggressive chemical environments, these bricks combine the strength of corundum with the chemical stability of sialon, making them ideal for applications where corrosion resistance is paramount.





# OUR MONOLITHIC REFRACTORIES REPRESENT THE PINNACLE OF VERSATILITY AND PERFORMANCE IN INDUSTRIAL HEAT MANAGEMENT SOLUTIONS.

# THESE ADVANCED MATERIALS OFFER UNPARALLELED FLEXIBILITY AND ROBUSTNESS, SEAMLESSLY ADAPTING TO A WIDE RANGE OF INDUSTRIAL APPLICATIONS.

From the intense heat of blast furnaces to the corrosive environments of chemical processing plants, our monolithic refractories provide reliable, long-lasting solutions that meet the most demanding industrial requirements.

# **STEMMING MATERIALS**

**Stemming materials** are crucial components in blast furnace operations, playing a vital role in maintaining furnace integrity and operational efficiency. Our advanced stemming formulations are engineered to provide exceptional stability and effective sealing, ensuring optimal furnace performance and longevity.

# **KEY FEATURES INCLUDE:**

- Essential for blast furnaces, providing critical support to furnace operations
- Provides stability and effective sealing, enhancing furnace efficiency
- Custom formulations for different furnace designs, tailored to specific operational needs





CASTABLES

**Our range of castable refractories** represents the cutting edge of monolithic technology. Offering a spectrum of options from low cement to ultra-low cement and conventional types, these materials are designed to meet the diverse needs of industries ranging from steel production to petrochemical processing.

### NOTABLE CHARACTERISTICS INCLUDE:

- Low cement, ultra-low cement, and conventional types, catering to varied application requirements
- Tailored for diverse applications from steel to petrochemicals, demonstrating versatility
- Rapid setting and superior strength development, minimizing downtime and enhancing durability



# **REPAIRING MATERIALS**

In the demanding world of industrial operations, quick and effective maintenance is crucial to minimizing costly downtime. **Our repairing materials** are engineered to provide rapid, reliable solutions for high-wear areas, ensuring that your operations continue smoothly with minimal interruption.

### **KEY ADVANTAGES INCLUDE:**

- · Quick and effective maintenance solutions, addressing urgent repair needs
- Minimizes downtime in high-wear areas, optimizing operational efficiency
- · Compatible with various refractory systems, offering versatile repair options



# **MAGNESIA COATING MIXES**

**Our magnesia coating mixes** offer superior protection for furnace linings, significantly extending the operational life of refractory installations. These advanced formulations create a robust barrier against corrosion and erosion, ensuring that your furnace linings perform optimally under the most challenging conditions.

### **KEY BENEFITS INCLUDE:**

- Protects furnace linings against corrosion and erosion, enhancing longevity
- Extends the life of refractory installations, reducing maintenance costs
- · Easy application and rapid curing, minimizing downtime during maintenance

# **DRY VIBRATION MIXES**

**Our dry vibration mixes** represent the pinnacle of monolithic refractory technology for applications requiring exceptional density and resistance to thermal cycling. These mixes are particularly well-suited for use in induction furnaces and ladles, where they provide a robust, long-lasting lining solution.

#### **NOTABLE FEATURES INCLUDE:**

- · Excellent performance in induction furnaces and ladles, optimizing operational efficiency
- High density and low porosity after installation, enhancing durability and performance
- Resistant to thermal cycling and metal penetration, ensuring long-term reliability

Each of these monolithic refractory solutions is the result of extensive research and development, combined with decades of practical industrial experience. They are designed not just to meet current industry standards, but to exceed them, providing our clients with a competitive edge in their respective fields.

EACH OF THESE MONOLITHIC REFRACTORY SOLUTIONS IS THE RESULT OF EXTENSIVE RESEARCH AND DEVELOPMENT, COMBINED WITH DECADES OF PRACTICAL INDUSTRIAL EXPERIENCE

THEY ARE DESIGNED NOT JUST TO MEET CURRENT INDUSTRY STANDARDS, BUT TO EXCEED THEM, PROVIDING OUR CLIENTS WITH A COMPETITIVE EDGE IN THEIR RESPECTIVE FIELDS.



At **DGC Refractories**, we recognize that graphite electrodes are the lifeblood of electric arc furnaces, playing a crucial role in the steelmaking process. Our advanced graphite electrodes are engineered to deliver optimal conductivity and performance, ensuring efficient and reliable operation in the demanding environment of modern steel production. We offer a comprehensive range of electrodes to meet diverse operational requirements, from standard melting applications to high-performance, high-capacity furnaces.

Our graphite electrodes are manufactured using cutting-edge technology and premium-grade raw materials, resulting in products that consistently exceed industry standards.

### We offer three primary grades of electrodes, each tailored to specific operational needs:

- **Regular Power (RP) Grade:** Ideal for standard melting operations, offering a balance of performance and cost-effectiveness.
- **High Power (HP) Grade:** Engineered for increased power input and improved productivity in more demanding applications.
- Ultra-High Power (UHP) Grade: Designed for the most intense furnace operations, delivering exceptional performance under extreme conditions.

# To accommodate the varied requirements of different furnace designs and capacities, we produce electrodes in a wide range of sizes:

- **Diameters ranging from 200mm to 750mm,** ensuring compatibility with virtually any electric arc furnace configuration.
- Custom lengths available to optimize electrode utilization and minimize waste.

# Our graphite electrodes are characterized by several key performance attributes that set them apart in the industry:

- **Superior electrical conductivity:** Enhances energy efficiency and reduces power consumption, leading to significant cost savings in furnace operations.
- Low consumption rates: Engineered for extended service life, minimizing the frequency of electrode replacements and reducing operational downtime.
- Excellent thermal shock resistance: Withstands the rapid temperature fluctuations inherent in electric arc furnace operations, reducing the risk of electrode failure.
- **High mechanical strength:** Ensures structural integrity under the intense mechanical stresses of furnace operation, improving overall reliability and safety.

### Furthermore, our team of experts provides comprehensive support services, including:

- **Technical consultation** to help select the optimal electrode grade and size for specific furnace configurations.
- On-site support for electrode installation and optimization of furnace parameters.
- Ongoing performance monitoring and analysis to ensure maximum efficiency and costeffectiveness.

By choosing **DGC Refractories'** graphite electrodes, steel producers can be confident they are employing a product that combines cutting-edge technology with unparalleled reliability, driving improved productivity and profitability in their operations.



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particularly in the steel industry where precision, consistency, and durability can make the difference between success and costly failure.

# **SLIDE GATE MECHANISMS**

**Our slide gate mechanisms r**epresent the pinnacle of flow control technology in steel casting operations. These sophisticated systems are designed to ensure precise, reliable control over molten metal flow, a critical factor in producing high-quality steel products.

- Engineered for optimal wear resistance to withstand the erosive effects of molten steel
- Incorporates advanced sealing technology to prevent leakage and ensure safety
- Offers smooth, consistent operation for precise flow control
- Available in various sizes and configurations to suit different ladle capacities and steel grades



# LADLE UPPER & LOWER NOZZLES

**The ladle nozzles** we produce are optimized to facilitate smooth, controlled metal flow during the casting process. These critical components play a vital role in maintaining steel quality and casting efficiency.

- · Upper nozzles designed for excellent thermal shock resistance and erosion resistance
- · Lower nozzles engineered for optimal flow dynamics and wear resistance
- Both types feature advanced materials that resist clogging and maintain consistent performance
- Custom designs available to meet specific operational requirements



WELL BLOCKS

**Our well blocks** are specifically designed for consistent, reliable performance in continuous casting operations. These crucial components help maintain steel quality and casting efficiency in this demanding application.

- Manufactured from high-performance materials to withstand the rigors of continuous operation
- · Engineered for optimal thermal management to prevent solidification issues
- · Features precision-machined surfaces for seamless integration with other tundish components
- · Designed for easy installation and replacement to minimize downtime









# **PERMEABLE** BRICKS

**DGC Refractories' permeable bricks** play a crucial role in enhancing gas purging efficiency in steelmaking processes. These specialized bricks allow for uniform gas distribution, improving steel quality and process efficiency.

- Engineered porosity for optimal gas flow and distribution
- · High resistance to erosion and chemical attack from molten steel and slag
- Thermal shock resistant to withstand rapid temperature changes
- · Available in various compositions to suit different steelmaking environments





# LONG NOZZLES & SUBMERGED NOZZLES

**Our long nozzles and submerged nozzles** are tailored to meet specific casting requirements, ensuring optimal performance in various steel grades and casting configurations.

- Long nozzles designed for extended reach and precise metal stream control
- · Submerged nozzles engineered to minimize turbulence and air entrainment
- Both types feature advanced materials for excellent erosion resistance and thermal stability
- Custom designs available to optimize performance for specific steel grades and casting parameters



STOPPERS

**Our precision-engineered stoppers** are designed for accurate flow control in steel casting operations. These critical components ensure consistent, reliable performance in demanding environments.

- · Manufactured from high-performance refractory materials for extended service life
- **Precision-machined** for accurate seating and optimal sealing
- Engineered for excellent thermal shock resistance and erosion resistance
- · Available in various sizes and designs to suit different ladle and tundish configurations

Each of these functional refractory products is the result of extensive research, development, and real-world testing. We work closely with our clients to understand their specific operational challenges and requirements, allowing us to provide tailored solutions that optimize performance, enhance efficiency, and improve overall product quality.

Our commitment to excellence in functional refractories extends beyond the products themselves. We offer comprehensive support services, including:

- Technical consultation for product selection and implementation
- On-site installation support and training
- Performance monitoring and optimization services
- Ongoing research and development to continually improve product performance

By choosing **DGC Refractories** for your functional refractory needs, you're not just getting a product – you're gaining a partner committed to enhancing your operational efficiency and product quality. Our functional refractories are designed to deliver the reliability, precision, and performance that modern steel production demands.

# **OUALITY ASSURANCE** THE CORNERSTONE OF OUR EXCELLENCE

At DGC Refractories, quality is not just a department; it's a mindset that permeates every aspect of our operations. Our world-class laboratory is a testament to this commitment, equipped with state-of-the-art equipment that enables us to conduct rigorous testing and quality checks throughout the entire manufacturing process.

### **KEY EQUIPMENT AND PROCESSES:**

- ICP-AES Spectrograph: This equipment ensures precise chemical analysis of raw materials and finished products, capable of detecting trace elements down to parts per billion, guaranteeing consistent composition across all production batches.
- Large-Scale Image Analysis Microscope: Our microscope allows for detailed inspection and analysis of refractory microstructures, identifying potential weak points or inconsistencies before they become issues.
- High Temperature Load Testing Analyzer: This analyser simulates real-world conditions to evaluate material strength and performance, conducting tests at temperatures up to 1700°C and providing critical data for product development and quality control.
- Thermal Shock Resistance Test Furnace: Our test furnace subjects materials to rapid temperature changes to ensure durability, mimicking the harsh conditions found in industrial applications.
- X-Ray Diffraction (XRD) Analysis: XRD analysis identifies crystalline phases in refractory materials, ensuring consistency in mineral composition and aiding in the development of new refractory formulations.
- Porosity and Bulk Density Testing: This testing determines the physical properties crucial for refractory performance, ensuring consistent quality across production batches and helping in optimizing material properties for specific applications.

Our quality assurance process is comprehensive, covering every stage from raw material selection to final product testing. This rigorous approach ensures that every refractory product leaving our facility meets or exceeds the highest industry standards, providing our clients with the confidence and performance they require for their critical operations. By choosing **DGC Refractories,** you're not just getting a product – you're getting a commitment to excellence that's backed by cutting-edge technology and uncompromising quality control.



# PRODUCTION CAPACITY

**MEETING GLOBAL DEMANDS** 

# OUR IMPRESSIVE PRODUCTION CAPACITIES **ENSURE WE CAN MEET THE DEMIANDS OF VARIOUS INDUSTRIES WITH EFFICIENCY AND RELIABILITY.** THE STRATEGIC ALLIANCE WITH CNBM HAS FURTHER **ENHANCED OUR MANUFACTURING CAPABILITIES, ALLOWING US TO PROVIDE HIGH-QUALITY REFRACTORY PRODUCTS AT SCALE.**

# **ANNUAL PRODUCTION CAPACITY**

# **REFRACTORY BRICKS: 300,000 TONS**

Our refractory brick production includes magnesia, alumina, silica, and specialized bricks, with flexible production lines capable of rapid product changeovers and automated handling and packaging for consistent quality.

# **MONOLITHIC REFRACTORIES: 200,000 TONS**

This capacity encompasses castables, gunning mixes, and specialized formulations, produced in state-of-the-art mixing and packaging facilities with customizable batch sizes to meet specific project requirements.

# FUNCTIONAL REFRACTORIES: TAILORED PRODUCTION BASED ON DEMAND

We have dedicated production lines for slide gate refractories, nozzles, and other functional products, employing precision manufacturing processes to ensure exact specifications with rigorous quality control at every stage of production.

These robust production capacities, enhanced by CNBM's advanced production techniques and facilities, enable us to deliver tailored solutions promptly and effectively, meeting the diverse needs of our global clientele across multiple industries. By choosing **DGC Refractories**, you're partnering with a manufacturer capable of meeting large-scale demands without compromising on quality or customization. Our production capabilities ensure that we can support your projects, no matter their size or complexity, with the highest quality refractory solutions delivered on time and to specification.



# WHY CHOOSE DGC REFRACTORIES

## **INNOVATIVE AND SUSTAINABLE SOLUTIONS:**

- Cutting-edge R&D facilities dedicated to developing eco-friendly refractory solutions
- Continuous improvement in energy efficiency and waste reduction
   in our manufacturing processes
- **Commitment to helping clients** reduce their carbon footprint through advanced refractory technologies

## **EXTENDED SERVICE LIFE:**

- **Proprietary formulations** designed for maximum durability in harsh industrial environments
- Advanced wear-resistant materials that significantly extend equipment lifespan
- Comprehensive after-sales support to optimize refractory performance and longevity

# **COMPREHENSIVE PRODUCT RANGE:**

- One-stop solution for all refractory needs across diverse industries
- Customizable products to meet unique process requirements
- Continuous expansion of our product portfolio to address evolving industry challenges

### **RIGOROUS QUALITY CONTROL & ASSURANCE:**

- ISO 9001:2015 certified manufacturing processes
- State-of-the-art testing facilities ensuring consistent product quality
- Dedicated quality assurance team overseeing every stage of production

### **CUSTOM SOLUTIONS FOR DIVERSE NEEDS:**

- Experienced technical team capable of designing bespoke refractory solutions
- Collaborative approach, working closely with clients to understand and meet their specific requirements
- Flexibility to adapt our products and services to unique industrial challenges

### **GLOBAL EXPERTISE THROUGH CNBM PARTNERSHIP:**

- Access to world-class research and development resources
- Leveraging international best practices in refractory manufacturing
- Global supply chain capabilities ensuring reliable product availability

### **TECHNICAL SUPPORT & TRAINING:**

- Comprehensive installation and maintenance support
- Regular training programs for clients' technical teams
- On-site troubleshooting and optimization services

# **COST-EFFECTIVE SOLUTIONS:**

- Focus on total cost of ownership, not just initial product cost
- Refractory designs that optimize energy efficiency in client
   operations
- Predictive maintenance strategies to minimize unplanned downtime









# **PARTNERING** FOR EXCELLENCE



Our commitment to excellence, innovation, and customer satisfaction drives us to continually push the boundaries of what's possible in refractory technology. By choosing **DGC Refractories**, you're not just selecting a supplier; you're partnering with a leader in industrial heat management solutions.

We are dedicated to forging a future of unparalleled efficiency and innovation alongside our clients. Our expertise can transform your operations, guiding you on a journey of continuous improvement and success. At **DGC Refractories**, we are committed to being your strategic partner, supporting your growth and prosperity with unparalleled engineering solutions.

# THE NEXT STEP

**Ready to revolutionize your industrial heat management?** Contact our team of experts today for a personalized consultation. Let us demonstrate how **DGC Refractories** can enhance your operational efficiency, sustainability, and bottom line. Together, we'll elevate your operations to new heights of performance and profitability.

CHOOSE DGC REFRACTORIES - WHERE INNOVATION MEETS EXCELLENCE IN REFRACTORY SOLUTIONS.

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