



Ceramic & Glass Industry Insulation Solutions

Advanced Thermal Management for Kilns, Furnaces,
Lehrs & High-Temperature Processing Equipment

ENERGY EFFICIENCY

FURNACE LINING

HEAT MANAGEMENT

ENGINEERING HIGH-TEMPERATURE SOLUTIONS FOR THE GLOBAL CERAMIC & GLASS INDUSTRY

Engineered Thermal Management for Ceramic & Glass Production

The ceramic and glass industries are fundamentally thermal processing industries. From architectural ceramics and sanitaryware to advanced ceramics, container glass, flat glass, and fiberglass — every product depends on precisely controlled temperature profiles, uniform heat distribution, and reliable kiln and furnace insulation systems.

Unlike metallurgy and petrochemicals, the ceramic and glass sectors demand insulation solutions that not only reduce energy consumption and shell temperatures but also support firing curve control, temperature uniformity, low heat storage, rapid heating/cooling cycles, product consistency, kiln car weight reduction, and long-term operational reliability.

CCEWOOL® and CCEFIRE® bring over 20 years of high-temperature insulation expertise, delivering systematic refractory and insulation solutions engineered for every critical thermal zone in ceramic and glass production.

20+

YEARS
GLOBAL
EXPERIENCE

40+

COUNTRIES
SERVED

1600°C

MAX
TEMPERATURE
GRADE

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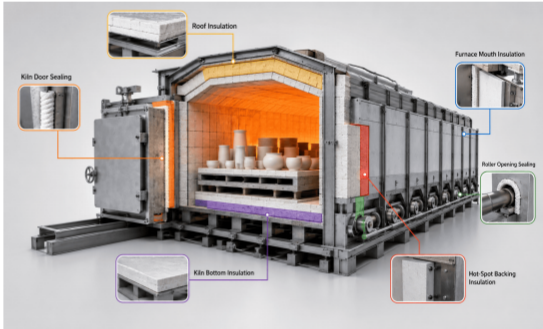
The Ceramic & Glass Industry Challenge

High Temperatures. Precise Thermal Control.
Relentless Energy Demand.

The ceramic and glass industries encompass a broad range of sectors — architectural ceramics, sanitaryware, tableware, advanced ceramics, refractories, container glass, flat glass, fiberglass, specialty glass, and glass processing. Every production stage relies on tightly controlled temperature profiles, uniform thermal fields, and dependable kiln and furnace insulation.

Critical Thermal Equipment Across the Production Chain

Tunnel Kilns Continuous firing of ceramic products passing through preheating, firing, and cooling zones. Large heat-receiving surfaces demand low thermal mass linings and effective kiln car insulation.	Roller Hearth Kilns Fast-firing of tiles, slabs, advanced ceramics, and electronic ceramics. Rapid thermal response and roller penetration sealing are critical performance factors.	Shuttle & Intermittent Kilns Batch firing of sanitaryware, art ceramics, refractories, and specialty products. Low heat storage linings directly impact cycle time and fuel efficiency.
Glass Melting Furnaces The most energy-intensive equipment in glass production. Cold-face backup insulation and shell temperature control improve thermal efficiency without affecting glass-contact refractories.	Annealing Lehrs Controlled cooling of formed glass to release internal stress. Zone-to-zone temperature stability, partition insulation, and duct thermal management are essential.	Flue & Duct Systems Exhaust and waste heat recovery systems where continuous heat loss from uninsulated or under-insulated surfaces represents wasted energy and reduced efficiency.



Key Industry Drivers

- Rising fuel and electricity costs
- Demand for tighter firing curve control
- Need for faster cycle times and production flexibility
- Product quality and consistency requirements
- Stricter workplace safety and shell temperature limits
- Long-term kiln and furnace reliability

Beyond Simple Insulation

Ceramic and glass industry thermal management is not simply about "adding insulation." It requires a zone-by-zone, furnace-type-specific approach that considers firing temperature, heating/cooling rates, atmosphere conditions, product quality requirements, mechanical loads, glass melt corrosion, flue gas erosion, and maintenance cycles.

CCEWOOL® & CCEFIRE® Solutions for Ceramic & Glass

A Systematic, Zone-Based Approach

Energy optimization in the ceramic and glass industries requires a **systematic approach** that matches insulation materials to each zone's specific thermal, mechanical, and chemical demands. Ceramic kilns prioritize low heat storage, temperature uniformity, firing curve responsiveness, and kiln car/door sealing. Glass furnaces focus on cold-face insulation, forehearth temperature control, and waste heat recovery. Annealing lehrs emphasize zone stability, controlled cooling, and duct thermal management.



Complete Product System

Ceramic Fiber Modules & Blankets

Low heat storage, rapid thermal response, excellent thermal shock resistance. Ideal for kiln roofs, upper sidewalls, and large-area hot-face linings. Temperature grades: 1,100°C to 1,600°C.

Low Biopersistent Fiber Products

Alkaline earth silicate (AES) wool with enhanced solubility and biosafety. Exempt from carcinogen classification. Certified by Fraunhofer Institute. Classification temperatures: 1,200°C and 1,300°C.

Ceramic Fiber Boards & Papers

Rigid and semi-rigid insulation for backup layers, kiln car insulation, and interface sealing. Excellent machinability and dimensional stability.

Microporous Insulation Boards

Ultra-low thermal conductivity for maximum thermal resistance in minimum thickness. Ideal for space-constrained backup insulation, kiln car floors, and shell temperature reduction zones.

Engineering-Driven Results

CCEWOOL® & CCEFIRE® solutions help ceramic and glass producers achieve:

- **Reduced fuel consumption** per firing cycle
- **Lower shell temperatures** and workplace heat exposure
- **Faster heating and cooling** for production flexibility
- **Improved temperature uniformity** for product quality
- **Extended lining service life** and reduced maintenance
- **Minimized thermal bridging** at critical nodes

Zone-Based Design Philosophy

Each thermal zone has unique demands. Our approach matches the right material to each application:

- **Kiln Roof & Upper Walls** — Low heat storage, rapid response
- **Kiln Cars & Floor** — Load-bearing + high-efficiency backup
- **Doors & Openings** — Continuous sealing, thermal cycling resistance
- **Roller Penetrations** — Thermal bridge control, flexible sealing
- **Glass Furnace Cold Face** — Maximize thermal resistance
- **Complex Nodes** — Custom-engineered shapes and seals

Tunnel Kiln — Continuous Firing & Kiln Car Insulation

Systematic Lining, Kiln Car Optimization & Continuous Sealing

Tunnel kilns are the most widely used continuous firing equipment in structural ceramics, sanitaryware, refractory products, and industrial ceramics. Products travel on kiln cars through preheating, firing, and cooling zones. With 24/7 continuous operation at sustained high temperatures, the insulation performance of the roof, sidewalls, kiln cars, doors, and seals directly affects energy consumption, temperature uniformity, and product quality.



Roof & Upper Sidewall — Low Heat Storage Lining

The largest heat-receiving surfaces. High thermal mass linings waste fuel by absorbing heat that should go to the products. CCEWOOL® ceramic fiber modules for large-area hot-face coverage, blankets for backup layers, boards for flat backup structures, and microporous boards for thickness-constrained zones significantly reduce lining heat absorption and improve thermal response.

Products: Ceramic Fiber Modules | Blankets | Boards | Microporous Boards

Kiln Car & Floor Insulation — Load-Bearing Efficiency

Kiln cars carry products through the entire firing cycle. High car heat storage increases specific energy consumption per unit of product; insufficient car bottom insulation allows heat to escape downward. CCEFIRE® DJM insulating fire bricks provide structural support; ceramic fiber boards handle local insulation and thermal bridging; blankets fill edge gaps; textile seals manage dynamic car-to-wall interfaces.

Products: DJM IFB | Ceramic Fiber Boards | Blankets | Textile Cloth, Tape, Rope

Doors & Kiln Entry/Exit Sealing

The highest dynamic heat loss areas. Cold air infiltration and hot gas escape at kiln ends destabilize temperature profiles. CCEWOOL® paper for interface sealing, cloth/tape/rope for dynamic seals, blankets for door backing, and custom vacuum-formed shapes for door plugs and edge barriers maintain thermal integrity.

Products: Ceramic Fiber Paper | Cloth, Tape, Rope | Blankets | Custom Shapes

Expansion Joints & Complex Nodes

Long tunnel kilns experience significant thermal expansion. Expansion joints, peepholes, thermocouple ports, and access doors concentrate thermal bridging and leakage. CCEWOOL® paper for joint compensation, blankets for gap filling, rope for flexible sealing, and custom shapes for non-standard geometries ensure lining continuity.

Products: Ceramic Fiber Paper | Blankets | Textile Rope | Custom Vacuum-Formed Shapes

System Value

A systematic tunnel kiln lining approach delivers:

- Reduced fuel consumption per firing cycle
- Controlled shell temperatures
- Improved product heating uniformity
- Extended lining and kiln car service life
- Stable thermal conditions for continuous production



Roller Hearth Kiln — Fast Firing & Roller Seal Solutions

Low Heat Storage Linings, Roller Penetration Sealing & Temperature Zone Control

Roller hearth kilns are the dominant continuous firing technology for ceramic tiles, slabs, advanced ceramics, and electronic ceramics. Products are conveyed on ceramic rollers through preheating, firing, and cooling zones within short cycle times. Compared to tunnel kilns, roller kilns demand faster thermal response, tighter temperature zone control, and more effective roller shaft penetration sealing.

Preheating & Firing Zone Low Heat Storage Lining

The preheating zone handles green body heat-up and heat recovery; the firing zone completes sintering and densification. Fast firing cycles require linings with minimal heat absorption for rapid temperature response. CCEWOOL® modules for roof and upper walls, blankets for backup, boards for flat structures, and microporous for space-constrained areas create high-efficiency, low thermal mass linings.

Products: Ceramic Fiber Modules | Blankets | Boards | Microporous Boards

Roller Shaft Penetration — Critical Thermal Bridge Control

The defining challenge of roller kilns. Ceramic rollers continuously pass through furnace walls while rotating, creating natural conduction paths and air leakage points. CCEWOOL® paper for interface insulation and thermal bridge control, cloth/tape/rope for dynamic shaft sealing, blankets for gap filling, and custom vacuum-formed shapes as roller collars and insulation blocks are essential for reducing this persistent heat loss.

Products: Ceramic Fiber Paper | Cloth, Tape, Rope | Blankets | Custom Vacuum-Formed Shapes

Inspection Doors, Peepholes & Thermocouple Ports

Numerous small openings for observation, temperature measurement, and maintenance create cumulative heat losses and destabilize kiln pressure and temperature uniformity. CCEWOOL® boards for door lining, blankets for frame filling, paper for interface sealing, textiles for flexible port closures, and custom shapes for port liners maintain thermal integrity.

Products: Ceramic Fiber Boards | Blankets | Paper | Cloth, Tape, Rope | Custom Shapes

Roof & Sidewall Low Heat Storage Optimization

The largest uninterrupted heat-receiving surfaces determine baseline thermal efficiency. Accelerated firing cycles demand minimal lining thermal mass. CCEWOOL® modules with blanket backup, boards for local reinforcement, and microporous boards for shell temperature reduction create a lightweight, responsive lining system.

Products: Ceramic Fiber Modules | Blankets | Boards | Microporous Boards



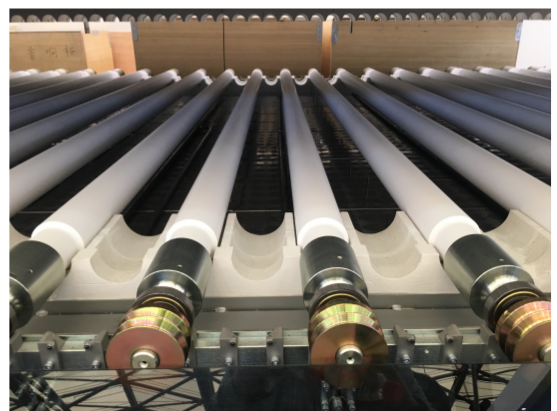
Quality-Critical Design

For roller kilns, insulation directly impacts product quality:

- Preheating & firing zones → thermal efficiency & product quality
- Roller penetrations → thermal bridge & seal integrity
- Roof & walls → lining heat storage & shell loss
- Inspection ports → cumulative leakage control
- Complex nodes → complete system continuity

System Benefits

Reduced firing energy consumption, faster temperature response, improved product consistency, extended lining life, and reliable conditions for high-speed continuous ceramic production.



Shuttle & Intermittent Kiln — Low Heat Storage Solutions

Cycle Efficiency Through Reduced Lining Heat Absorption

Shuttle kilns and intermittent kilns serve sanitaryware, tableware, art ceramics, refractories, and advanced ceramics. Unlike continuous kilns, each firing follows a complete "loading – heating – soaking – cooling – unloading" cycle. The kiln lining absorbs and releases heat with every cycle — energy that never reaches the product. Reducing lining heat storage is therefore more impactful than simply increasing insulation thickness.

Roof & Wall Low Heat Storage Lining

The largest heat storage and heat loss areas. Traditional dense refractory linings absorb massive amounts of energy during ramp-up, prolonging cycle times and increasing fuel consumption. CCEWOOL® ceramic fiber modules for hot-face structures, blankets for backup layers, boards for local reinforcement, and microporous boards for shell temperature control dramatically reduce lining heat absorption, enabling faster temperature response and shorter cycles.

Products: Ceramic Fiber Modules | Blankets | Boards | Microporous Boards

Kiln Door Sealing & Opening Heat Loss Control

Doors endure repeated opening/closing cycles and cold-hot transitions. Insufficient door insulation and degraded seals allow hot gas escape and cold air ingress. CCEWOOL® modules, blankets, and boards for door backing; paper for interface sealing; cloth/tape/rope for frame and dynamic edge seals; custom shapes for peephole blocks and structural reinforcement.

Products: Ceramic Fiber Modules | Blankets | Boards | Paper | Textiles | Custom Shapes

Kiln Car & Floor Load-Bearing Insulation

For sanitaryware, large refractory products, and specialty ceramics, kiln cars must bear substantial weight while minimizing their own heat absorption. Every joule absorbed by the car structure reduces effective energy utilization. CCEFIRE® DJM IFB for structural bearing layers, boards for flat backup insulation, blankets for edge compensation, and textile seals for dynamic car-to-wall interfaces.

Products: DJM IFB | Ceramic Fiber Boards | Blankets | Textile Seals

Burner Ports, Peepholes & Expansion Joints

Many heat losses occur through burner ports, observation holes, thermocouple ports, access doors, and expansion joints. CCEWOOL® paper for interface insulation and thermal bridge control, textiles for flexible sealing, blankets for gap filling, and custom shapes for port liners and non-standard node reinforcement maintain complete lining continuity.

Products: Ceramic Fiber Paper | Cloth, Tape, Rope | Blankets | Custom Shapes



Why Low Heat Storage Matters

In batch kilns, the lining is heated and cooled with every cycle. High lining heat storage:

- Extends heating and cooling times
- Increases fuel consumption per cycle
- Reduces production throughput
- Amplifies thermal stress on the structure

Cycle Efficiency Value

Low heat storage linings enable shorter ramp-up cycles, lower per-cycle fuel costs, improved temperature uniformity under varying load conditions, and more reliable firing for high-value ceramic products.



Glass Melting Furnace — Outer Insulation & Cold-Face Backup

Cold-Face Energy Optimization Without Disturbing Glass-Contact Refractories

Glass melting furnaces are among the most energy-intensive thermal equipment in industrial production, operating at sustained high temperatures over long campaigns. For float glass, container glass, tableware, and specialty glass lines, reducing furnace heat dissipation, improving waste heat utilization, and controlling shell temperatures are critical energy optimization priorities.

Important: CCEWOOL® and CCEFIRE® products are applied to cold-face backup, outer insulation, and sealing systems — not glass-contact working layers. By optimizing outer insulation, we reduce heat losses without affecting the primary refractory system.



Cold-Face Design Priority

Glass furnace optimization focuses on:

- **Crown:** Primary heat radiation zone
- **Sidewalls:** Long-term heat dissipation
- **Bottom:** Structural + thermal protection
- **Regenerator & Flue:** Heat recovery efficiency
- **Nodes & Seals:** Lining continuity

Crown External Insulation

The crown experiences the most intense thermal radiation. While the hot face uses specialized glass furnace refractories, the cold face and outer insulation benefit from CCEWOOL® microporous boards, blankets, and ceramic fiber boards to reduce heat transfer to the steel structure and environment. For large continuous furnaces, crown insulation significantly lowers shell temperatures and improves working conditions.

Products: Microporous Boards | Ceramic Fiber Blankets | Ceramic Fiber Boards

Sidewall Cold-Face Backup

Sidewalls experience continuous long-term heat dissipation. The glass-contact working layer provides corrosion resistance; cold-face backup insulation on the exterior dramatically reduces outward heat conduction. CCEWOOL® microporous boards for high thermal resistance zones, ceramic fiber boards for flat backup, and blankets for corner and irregular surface compensation.

Products: Microporous Boards | Ceramic Fiber Boards | Blankets

Bottom External Insulation

The furnace bottom endures sustained high temperatures and full structural load. Beyond the glass-contact working layer, cold-face bottom and foundation insulation combine CCEWOOL® microporous boards, ceramic fiber boards, and CCEFIRE® DJM IFB in a composite structure to reduce downward heat conduction, protect the foundation, and control long-term energy loss.

Products: Microporous Boards | Ceramic Fiber Boards | DJM IFB

Regenerator & Flue Insulation

Regenerators and flue systems are integral to waste heat recovery. Insulation performance directly impacts energy utilization efficiency. CCEWOOL® blankets, boards, microporous boards, and DJM IFB on regenerator exteriors, flues, chimney connections, and heat recovery interfaces reduce heat loss and maintain more stable heat recovery conditions.

Products: Ceramic Fiber Blankets | Boards | Microporous Boards | DJM IFB

Long-Term Value

Systematic cold-face insulation reduces energy consumption, controls shell temperatures, improves waste heat utilization efficiency, and delivers more stable, sustainable long-term operation without disturbing glass-contact refractories.



Glass Annealing Lehr — Zone Stability & Controlled Cooling

Precision Thermal Management for Stress-Free Glass Products

The annealing lehr is the critical post-forming heat treatment equipment that releases internal stress through precisely controlled cooling. For float glass, container glass, tableware, and specialty glass, annealing quality directly determines product strength, cutting performance, and final yield. Lehr insulation must serve temperature zone stability, cooling curve control, transverse temperature uniformity, and long-term operational consistency — not just reduce heat loss.

Heating & Soaking Zone Temperature Stability

Glass entering the lehr must be held near the annealing temperature long enough for internal temperature to equalize. Heat dissipation through the roof, sidewalls, and zone partitions directly affects glass temperature distribution. CCEWOOL® blankets, boards, and microporous boards for the furnace body insulation reduce uncontrolled heat loss, improve zone stability, and minimize environmental interference with the internal thermal field.

Products: Ceramic Fiber Blankets | Boards | Microporous Boards

Controlled Cooling Zone Optimization

The controlled cooling zone gradually reduces glass temperature along a prescribed cooling curve. Local heat loss, uneven insulation, or cold air infiltration can cause premature cooling and stress generation. CCEWOOL® blankets, boards, and microporous boards for roof, sidewall, and cooling zone outer insulation maintain a stable thermal environment that keeps the actual cooling curve close to the design target.

Products: Ceramic Fiber Blankets | Boards | Microporous Boards | Paper

Duct & Circulation Air Thermal Management

Modern lehrs rely on circulation fans and duct systems to regulate cooling intensity and temperature distribution. Excessive duct heat loss, joint leakage, or local temperature losses compromise airflow temperature and control precision. CCEWOOL® blankets, boards, and microporous boards for duct insulation; paper and textiles for flange, access port, and interface sealing.

Products: Ceramic Fiber Blankets | Boards | Microporous Boards | Paper | Textiles

Zone Partitions & Thermal Boundary Control

Multi-zone lehrs require independent thermal environments between heating, soaking, and cooling zones. Inadequate partitions cause temperature cross-talk, pushing the cooling curve off specification. CCEWOOL® boards for insulated baffles and zone dividers, blankets, papers, and custom shapes for edge compensation and node sealing strengthen zone boundary integrity.

Products: Ceramic Fiber Boards | Blankets | Paper | Custom Shapes

Inspection Ports & Key Node Sealing

Numerous inspection doors, peepholes, thermocouple ports, and expansion



Quality-Driven Design

Annealing lehr insulation directly impacts product quality:

- Heating & soaking → entry temperature uniformity
- Controlled cooling → stress release effectiveness
- Duct system → airflow control precision
- Zone partitions → cooling curve accuracy
- Node sealing → complete thermal environment stability

Production Value

Stable thermal management in the lehr improves glass strength, reduces residual stress, enhances cutting and processing performance, and increases final product yield.



Product Portfolio for Ceramic & Glass Industry

Complete High-Temperature Insulation Product Range

CCEWOOL® and CCEFIRE® provide a comprehensive portfolio of high-performance insulation products, from traditional ceramic fiber to low biopersistent fiber, polycrystalline fiber, microporous insulation, and lightweight insulating fire bricks. Each product category serves specific temperature, mechanical, and application requirements across ceramic and glass industry thermal processes.

 CERAMIC FIBER BLANKET Up to 1,600°C	 CERAMIC FIBER MODULE Up to 1,600°C	 CERAMIC FIBER BOARD Up to 1,430°C	 CERAMIC FIBER PAPER Up to 1,430°C	 CERAMIC FIBER TEXTILE Up to 1,260°C
 CERAMIC FIBER BULK Up to 1,600°C	 VACUUM FORMED SHAPE Up to 1,430°C	 MICROPOROUS BOARD Up to 1,050°C	 LBP FIBER PRODUCTS Up to 1,300°C	 DJM INSULATING FIRE BRICK Up to 1,760°C

Core Product Technologies

Ceramic Fiber (RCF) Products

Alumina-silicate fiber products with excellent high-temperature stability, low thermal conductivity, low heat storage, and superior thermal shock resistance. Classification temperatures from 1,100°C to 1,430°C. Available as blanket, module, board, paper, textile, bulk, and vacuum-formed shapes.

Low Biopersistent Fiber (LBP) Products

Alkaline earth silicate (AES) fiber products with enhanced solubility and biosafety characteristics. Classification temperatures of 1,200°C and 1,300°C. Exempt from carcinogen classification under GHS and IARC standards. Certified by Germany's Fraunhofer Institute.

Polycrystalline Wool (PCW) Products

High-alumina fiber produced via sol-gel technology with up to 73% Al2O3 content. Classification temperature of 1,600°C. Extremely low shot content, superior corrosion resistance, and excellent thermal stability for the most demanding high-temperature applications.

Microporous Insulation

Ultra-low thermal conductivity boards providing maximum thermal resistance in minimum thickness. Ideal for backup insulation where space is constrained but thermal performance requirements are high — kiln cars, glass furnace cold face, and shell temperature reduction zones.

DJM Insulating Fire Bricks (IFB)

Lightweight refractory bricks combining structural integrity with good thermal insulation. Multiple temperature grades from 1,260°C to 1,760°C. Ideal for kiln car load-bearing layers, kiln floors, lower sidewalls, and structural backup applications.

Custom Engineering

Beyond standard products, CCEWOOL® provides custom vacuum-formed shapes, precision-cut boards, tailored textile assemblies, and application-specific composite designs — all engineered to your kiln or furnace's exact dimensional and performance requirements.

Engineering Services & Partnership

Harnessing 20+ years of high-temperature insulation expertise to deliver engineered solutions for the global ceramic and glass industry.

Application Engineering

Our technical team works directly with your plant engineers to analyze kiln and furnace operating conditions, identify critical heat loss zones, and develop customized lining configurations. We provide heat flow calculations, thermal efficiency analysis, and detailed material recommendations for each thermal zone.

Installation Support & Supervision

On-site installation guidance ensures lining systems are installed correctly and perform as designed. From module anchoring to expansion joint detailing and roller penetration sealing, our supervision services help achieve designed thermal performance and extend lining service life.

Custom Fabrication

Vacuum-formed shapes, custom-cut boards, tailored textile assemblies, and application-specific composite structures — manufactured to your drawings and specifications. We work from your CAD models to deliver precision-engineered insulation components for complex kiln geometries.

Global Supply Chain

With manufacturing and warehousing operations across Asia and North America, CCEWOOL® provides reliable, timely delivery to ceramic and glass producers worldwide. Our North American warehouses in Charlotte, NC and Youngstown, OH ensure rapid response for urgent requirements.

Quality Assurance

All CCEWOOL® products are manufactured under ISO 9001 quality management systems. We provide factory inspection reports per EU and ASTM standards, CE certification, REACH registration, and independent laboratory test results to verify material performance.

Technical Documentation

Comprehensive technical data sheets, material safety data sheets (MSDS), installation guidelines, and application case studies support your engineering, procurement, and maintenance teams throughout the project lifecycle.

Why Partner with CCEWOOL®

- **20+ years** of specialized experience in high-temperature insulation fiber technology
- **Complete product portfolio** covering all temperature grades and application requirements
- **Engineering-driven approach** — we design solutions, not just supply products
- **Global presence** with brand agents in 40+ countries and North American warehousing
- **Proven quality** validated by 30+ international exhibitions and independent certifications
- **Customer transparency** with real-time production and shipment video documentation



Advanced Thermal Engineering & Fabrication Solutions

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GLOBAL PROJECT SUPPORT

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CCEWOOL® specializes in providing comprehensive thermal energy-saving solutions for industrial kilns and furnaces across the ceramics, glass, metallurgy, steel, petrochemical, power generation, and new energy sectors. Our engineering team combines materials science expertise with practical application knowledge to deliver optimized furnace lining solutions that reduce energy consumption and improve process reliability.