CRIZAC

EST. 1984 · TIRUPATI LEGACY

PRODUCT BROCHURE

Powering Industries with Premium Silica Ramming Mass & Refractories

Engineered refractory solutions for steel, cement, power and chemical industries — built on 25+ years of metallurgical expertise.

25+	Years of Expertise	97%	SiO_2 Purity	1750°C	Thermal Stability	India & Overseas	

WHO WE ARE

A Leading Name in Refractories & Ramming Mass

Crizac Metalicks Pvt. Ltd. is one of Eastern India's leading manufacturers of Silica Ramming Mass and Refractories, delivering customised solutions to domestic and overseas clients for over two and a half decades.

Headquartered in Kolkata with a state-of-the-art manufacturing facility in Salanpur, Asansol, Crizac is an offshoot of **Tirupati Traders** — a trusted name in refractories and minerals since 1984. Together with our group company **Shakuntala Refractories Pvt. Ltd.**, this parallel integration allows us to serve a diverse customer base across India and abroad with consistency and care.

Refractory products play a critical role in the production process across Steel, Cement, Chemical, Power and other allied industries. We ensure our clients receive the highest quality materials that improve production performance, achieve optimum output with maximum energy saving, and reduce both production costs and carbon emissions.

Our diligent workforce uses premium-grade raw materials at a sound production unit, where quality experts carry out rigorous multi-stage inspection procedures on every batch.

Private Branding Available — We offer private labeling for wholesalers and resellers who wish to market our refractory products under their own brand.

CARRYING FORWARD THE LEGACY OF

1984

Tirupati Traders

Since incorporation, Tirupati Traders has been a preferred choice for the refractories & mineral requirements of esteemed customers — a legacy of trust that Crizac proudly continues today.

25+ Years Experience	**2** Production & Office Units
3 Stage Beneficiation	**100%** Quality Tested

WHY CHOOSE CRIZAC

Beyond Supply — We Deliver Reliability

Choosing the right ramming mass is critical to furnace life, energy efficiency, and overall production performance. We go beyond just supplying material — we deliver consistency and long-term value.

01

Wide Product Range

Silica ramming mass, high alumina & fire clay bricks, bottom pouring sets, continuous casting refractories and more — all under one roof.

02

Long-Term Benefits

Advanced beneficiation and controlled particle sizing ensure durability, longer furnace life and reduced operating costs.

03

Quality Assurance

Every batch undergoes strict multi-stage testing, ensuring reliability, energy efficiency and compliance with international standards.

04

Thermal Performance

Stable up to 1750°C with low thermal expansion and high density — withstanding extreme furnace conditions without cracks or spalling.

Crizac's Industrial Advantage

Precision-engineered refractory solutions tailored for India's toughest industrial demands. From steel plants to cement industries, our materials ensure maximum thermal resistance, longer life, and cost-efficient performance in even the most extreme environments.

- High thermal resistance for furnaces
- Cost-effective & durable
- Steel, cement & glass industries

ACIDIC (SILICA) RAMMING MASS



INDUCTION FURNACE LINING

Silica Ramming Mass

Our ramming mass is a product of high-quality quartzite with 97% silicon dioxide, manufactured under strict quality control and calcined to eliminate spalling tendency — in a stabilised form where silica neither expands nor contracts.

Designed to minimise erosion in induction melting, it withstands temperatures up to 1750°C. Our three-stage beneficiation, purification and mixing plant keeps particle size distribution at an optimum level for high-density, trouble-free, consistent linings.

- 97% SiO_2
- High Density
- Pre-Mix Option
- Boric Acid Binder 0.8–1.5%

Technical Specification

Property	Value
SiO_2	97% (±1%)
Al_2O_3	0.04%
Fe_2O_3	0.04%
Moisture	Nil
Melting Point	1700°C

WHY IT MATTERS

Acidic ramming mass is vital in induction-furnace steelmaking for its ability to withstand thermal shocks without cracking — even during the interrupted power supply common in real operations.

Max Service Temp.	1750°C
Silica Purity	97%
Lining Type	High Density

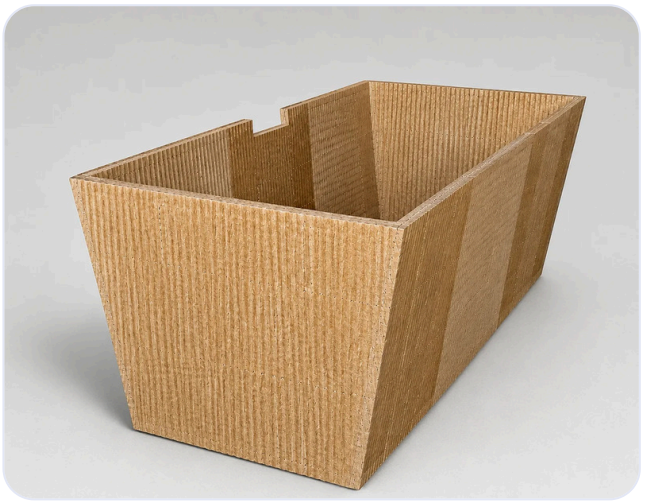
CONTINUOUS CASTING REFRACTORIES

TUNDISH LINING

Tundish Boards

Disposable boards used to form an inner lining for continuous casting tundishes. They save energy significantly, reduce refractory consumption, and improve steel quality by providing a fresh lining whenever the tundish is changed.

Engineered in different densities — from standard to premium — to precisely match the liner to your application. Carbon and low-alloy steels with less than 1.2% manganese are routinely cast with our silica boards, offering the most economical solution for low-sequence casting not exceeding 10 hours.



- Energy Saving
- Disposable
- Improves Steel Quality

Base Tundish Board — Specification

Property	Tundish Pad	Cones & Impact Pad
SiO_2	≥ 90	≥ 90
Fe_2O_3	≤ 1	≤ 1
C (%)	3 – 5	3 – 5
Bulk Density (g/cm³)	≥ 1.2	≥ 1.9
App. Porosity (%)	≥ 45	≥ 25
C.C. Strength (kg/cm²)	25 – 30	45 – 50
Application Temp.	≥ 1650°C	≥ 1650°C
Humidity (%)	≤ 1	≤ 1
Ignition Loss (%)	5 – 5.5	4.5 – 5

OTHER PRODUCTS

An Extended Material Portfolio

Boric Acid
Binder & flux agent

Sodium Silicate
Industrial grade

Pig Iron
Foundry raw material

Sponge Iron
Direct reduced iron

Asbestos Mill Board
Insulation board

Ferro Alloys
Silico Mn & Ferro Mn

Industries We Serve

Steel Plants | Cement Industries | Power Plants | Chemical Units | Glass Manufacturing | Non-Ferrous Metallurgy | Foundries | Induction Furnaces

Private Branding & Custom Solutions

We offer private labeling for wholesalers and resellers who wish to market our refractory products under their own brand — plus fully customised product specifications, including bottom pouring sets, tundish boards and silica ramming mass tailored to your furnace capacity and process.

CRIZAC

GET IN TOUCH

Let's Build Something Stronger Together

Discover how Crizac Metalicks can meet your unique requirements and elevate your operations. Reach out to our team for customised refractory solutions.

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India & Overseas

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