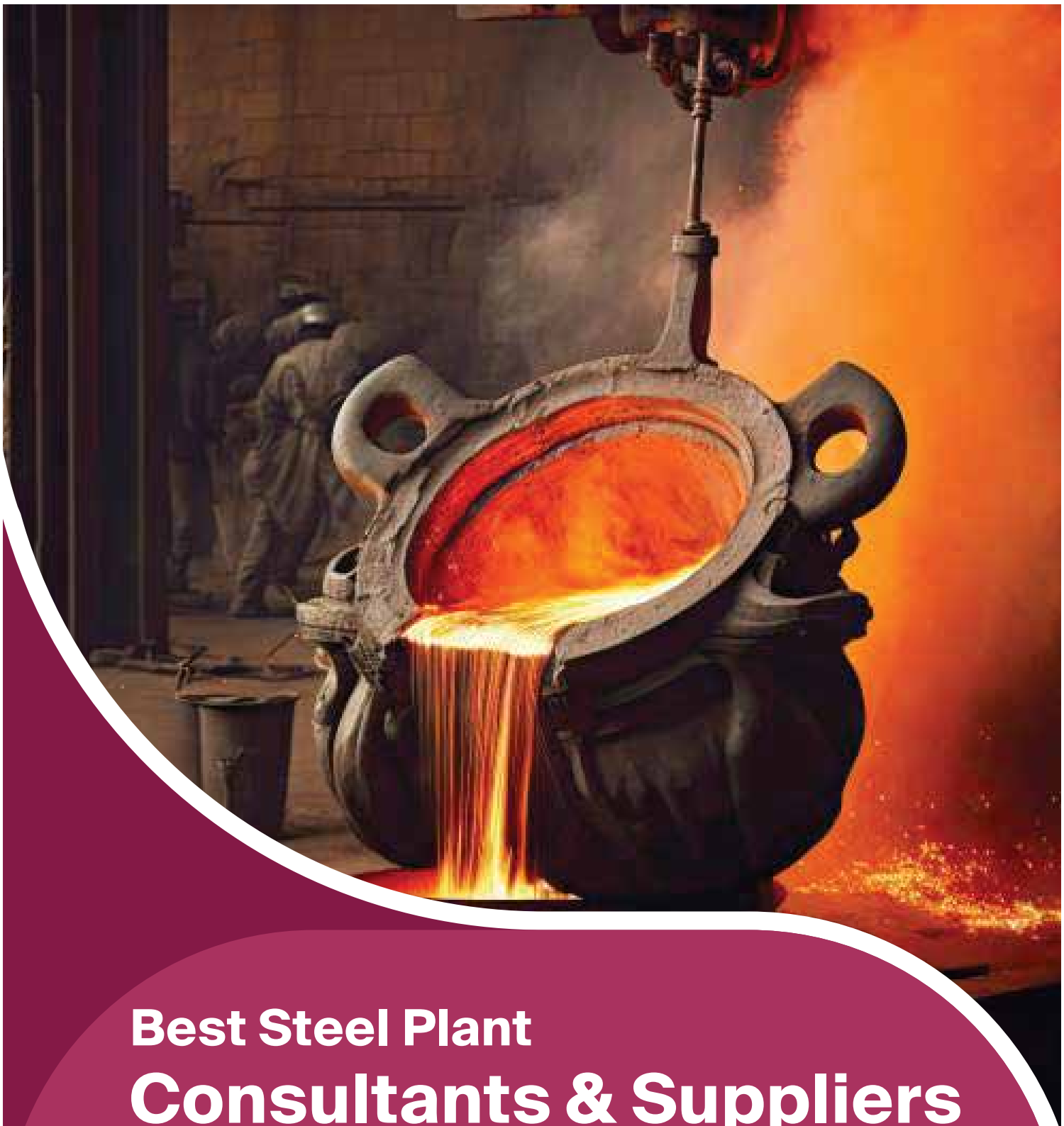
STEELOPEDIA

CONSULTANTS & SUPPLIERS
FOR STEEL INDUSTRIES
(ISO 9001:2015 Certified Company)



Best Steel Plant
Consultants & Suppliers
in India

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www.thesteelopedia.com

Company Overview

Steelopedia is promoted by Mr. Abhijeet Dani (BE Electronics) having 16 years of experience in steel industry and is now into consultion on steel making solutions, Supply & Manufacturing of products.

Steelopedia is one of the leading manufacturers of ramming mass, caster ems, thermocouple tips and samplers, tundish board and nozzles and many other steel plant consumables & machinery is situated in Ahmedabad, expert in field of steel making. Company established in a Year 2022 located in Ahmedabad which is one of the most industrially developed regions in india.

Within a short span of time, Steelopedia has not only been able to establish itself as one of the leading manufactures & suppliers in India but also one of the major exporters of mentioned products supplying to various countries in Europe, Middle East & South East Asia.

Mr. Abhijeet Dani

OUR MISSION

STEELOPEDIA seeks to achieve sustainable & profitable growth through delivery of innovative, world class products and services of exceptional value to our customers. We will achieve this through superior knowledge, strong business ethics, people orientation & total commitment to quality.

OUR VISION

The vision of steelopedia is to establish ourselves as a dynamic innovative and flourishing organisation with a leadership position and an unwavering focus on total customer satisfaction.

APPLICATION OF PRODUCTS

Our products are meant for steel & metal industry. Our focus on keys areas for steel, Aluminum & Copper making.

LIST OF OUR PRODUCTS

- Ramming Mass (Acidic, Neutral & Basic)
- Tundish Boards
- Tundish Nozzles
- Collector Nozzles & Inner Nozzles
- Slide Gate Plates
- Ladle Well Block
- Temperature Tips
- Sampler Tubes
- Oxygen Probes
- Radex Insulation Powder
- Casting Powder
- Nozzle Filling Compound
- Castables:- Whytheat A / Whytheat K
- Lining Vibrator Machine
- Ferro Alloys
- Silico Manganese
- Low Carbon Ferro Manganese
- Ferro Silicon

CONSULTING SERVICES

Steel making excellence has one name which stands out, **WIKIPEDIA OF STEEL, STEELOPEDIA!** Steelopedia is one of the Best Steel Plant Consultants & Material Suppliers from India. We have experience in installation , commissioning and operations of Induction Furnaces, Continuous Casting Machines, AOD Converters, Ladle Refining Furnace, VD/VOD systems, Rolling Mills, Annealing Furnaces and many more.

OUR CORE SERVICES INCLUDE

Installation: We install your steel-making machinery with utmost care and caution.

Commissioning: We make sure that your machines are optimized and ready to run for production.

Operations: We give you skilled manpower or train your existing staff to operate operation smoothly.

RAMMING MASS

Ramming mass is a pre-blended, dry refractory material used for lining furnaces, particularly induction furnaces, to withstand high temperatures and prevent erosion. It's typically composed of silica grains and other components like aluminum oxide or magnesia, depending on the application.

TYPES OF RAMMING MASS:

- Acidic Ramming Mass,
- Basic Ramming Mass,
- Neutral Ramming Mass

TUNDISH BOARD

Tundish boards are essential components in continuous casting tundishes. They are high quality board designed with special class grade silica / magnesia, used to make inner lining of tundish. This helps in improving the quality of steel being manufactured. The boards are available in different sizes or as required by the customers.

TUNDISH NOZZLE

A tundish nozzle is a refractory part of a continuous casting system that controls the flow of molten steel from the tundish to the mold. Tundish nozzles are made of refractory materials like alumina, graphite, zirconia, zircon and bauxite.

COLLECTOR NOZZLES & INNER NOZZLES

In continuous casting, a collector nozzle distributes molten metal evenly into multiple molds. while an inner nozzles (also known as ladle nozzle) controls the flow from the ladle to the tundish. The collector nozzles is typically located at the end of the tundish and has multiple ports for distributing the metal, while the inner nozzle is fixed in the well block of the ladle.

SLIDE GATE PLATES

Slide Gate Plates Refractory are used in ladle for controlling the liquid steel flow from Ladle to Tundish.Slide gate plates are available in a number of different chemistries and bond systems to best match the grades of steel and chemistries of the slag. Specific physical, chemical and mineralogical compositions of high purity ensure high corrosion and erosion resistance, optimum thermal shock resistance to yield optimum performance. Slide Gate Plate is the most important part of the slide gate system. It directly controls the flow of molten steel coming out of the bottom pouring ladle. Long-term contact with molten steel and direct confrontation with the thermal front and the high potential of steel in causing corrosion, can cause the depreciation of this part.Slide Gate Plate Refractories are installed on the ladle's bottom for regulating the flow of liquid steel from Ladle to Tundish. These are special refractories and should be treated with caution.

LADLE WELL BLOCK

A ladle well block is a specialized refractory brick used to line the bottom of a ladle in steelmaking designed to withstand extreme temperatures and corrosive molten metal, acting as a protective barrier where the ladle nozzle is inserted, allowing for controlled pouring of molten steel while resisting erosion and maintaining the metal's temperature; essentially, it connects the ladle's wearing lining to the flow control mechanism at the nozzle area.

TEMPERATURE TIPS

In steel plants, temperature tips, often expendable thermocouples, are crucial for accurately measuring the temperature of molten metal in various processes like furnace, ladle, and converter operations. These tips ensure quality control, prevent defects, and optimize energy consumption. Type of Temperature tips are Expendable Thermocouple Tips, Thermocouple Tips (Mini), imperator Tips (Mark III, Mark VII, etc.)

SAMPLER TUBES

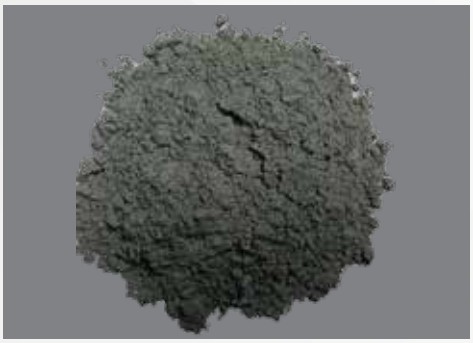
In the steel industry, sampler tubes, often molten steel samplers, are used to collect sample of molten steel for analysis. These tubes are design to extract steel samples from the molten metal bath, allowing for quick chemical composition analysis via spectrograph. They are essential for refining and sampling molten steel in ladles and tundishes after the furnace, and are used in various steel production processes.

OXYGEN PROBES

We Supply best quality of oxygen probes used to measure oxygen PPM, Carbon, Temperature of liquid steel together. We can Supply hydrogen probes as well as its instrument.

RADEX INSULATION POWDER

Radex insulation powder is a low-density, free-flowing powder used in steel production to reduce heat loss in ladles and tundishes during casting. It's applied as a layer on the surface of the molten steel to minimize radiation heat loss, ensuring consistent temperature and smooth casting operations.

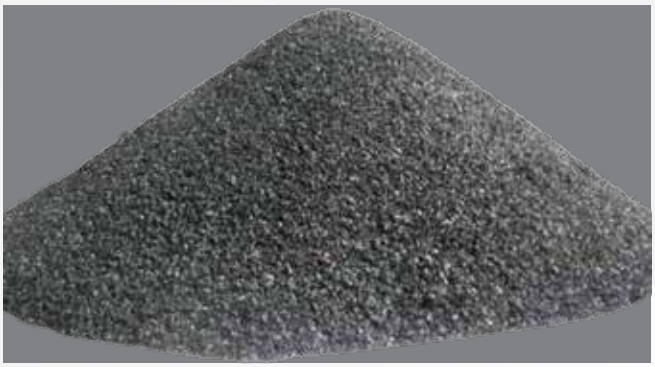


CASTING POWDER

Casting powder is a material used in the process of casting steel. It's made up of low melting components that create a lubricating layer between the mold and the molten metal. This layer helps the metal solidify without impurities, and protects it from oxidation.

NOZZLE FILLING COMPOUND

Nozzle filling compound is a special type of refractory material which is used during steel casting to ensure that the nozzles do not get blocked. With this compound, installation of heat-resistant materials between ladle nozzles and steel makes the steel casting process efficient as the molten steel flows freely. Our nozzle filling compounds are specifically designed to provide high thermal resistance and with stand extreme temperatures.

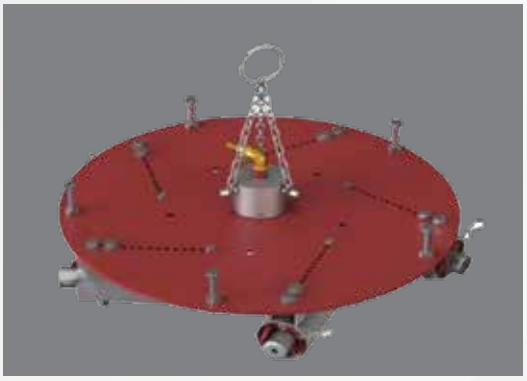


CASTABLES WHYTHEAT A / WHYTHEAT K

"Whytheat A" and "Whytheat K" are both types of refractory castable materials, primarily used in industrial furnaces and applications requiring high heat resistance, with the key difference being that Whytheat A has a higher alumina content (typically around 90%), making it suitable for extremely high temperatures and harsh environments. while "Whytheat K" has a lower alumina content (around 60%) and is more cost-effective for applications with moderate heat requirements; both are commonly used in industries like steelmaking, foundries, and boiler operations.

LINING VIBRATOR MACHINE

A lining vibrator is a piece of industrial equipment primarily used to compact refractory materials within furnace linings, ensuring uniform strength and increased lining life. It's designed to efficiently ram and vibrate refractory materials, like those used in induction furnaces, to achieve a dense and crack-free lining.



FERRO ALLOYS

Ferro alloys are alloys of iron with other metals, primarily used as additives in steel making to impart desired properties. They are produced by smelting or reducing oxides of the desired alloying elements with carbon in the presence of iron.

SILICO MANGANESE

Silico manganese is a ferro alloy primarily used in steelmaking as a deoxidizer and an alloying agent. It's an alloy of iron, manganese, and silicon, with higher silicon content compared to ferro manganese. Its primary function is to remove oxygen from molten steel, improving steel quality and properties. We provide all grades of silico manganese.

LOW-CARBON FERRO MANGANESE (LC-FEMN) AND HIGH CARBON FERRO MANGANESE (HC-FEMN)

Low-carbon ferro manganese (LC-FeMn) and high-carbon ferro manganese (HC-FeMn) are ferro alloys with varying carbon content, primarily used as alloying agents in steel production. Low-carbon ferro manganese contains a maximum of 1% carbon, while high-carbon ferro manganese typically has 6-8% carbon.

FERRO SILICON

Ferro-silicon is a metallic alloy primarily composed of iron and silicon, typically containing between 15% and 90% silicon. It's produced by melting iron and silicon, often in an electric arc furnace. This alloy is crucial in the steel industry for deoxidizing steel and adding silicon as an alloying element.

CERTIFICATE

QRO
QUALITY RESEARCH ORGANIZATION

Certificate of Registration

This is to certify that

STEEL OPEDIA

11TH FLOOR, 1105, COLONNADE-II, OPP. AUDA GARDEN, OPP. DINDAYAL AUDITORIUM, BODAKDEV, AHMEDABAD, GUJARAT, 380054, INDIA

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 9001 : 2015
Quality Management System

For the following scope of activities:

SUPPLY OF RAMMING MASS, TUNDISH BOARDS, TUNDISH NOZZLES, TEMPERATURE TIPS AND SAMPLERS, OXYGEN PROBES, CASTABLES, INSULATION COMPOUNDS, MACHINERY SUPPLY FOR STEEL MAKING

Date of Certification: 28th April 2025
1st Surveillance Audit Due: 27th April 2026
2nd Surveillance Audit Due: 27th April 2027
Certificate Expiry: 27th April 2028

Certificate Number: 305025042858Q

EGAC
CAB # 011905

IAF
MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit. (In case surveillance audit is not allowed to be conducted: this certificate shall be suspended / withdrawn).
The Validity of this certificate can be verified at www.qrocert.org
This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

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Website : www.qrocert.org, E-mail : info@qrocert.org

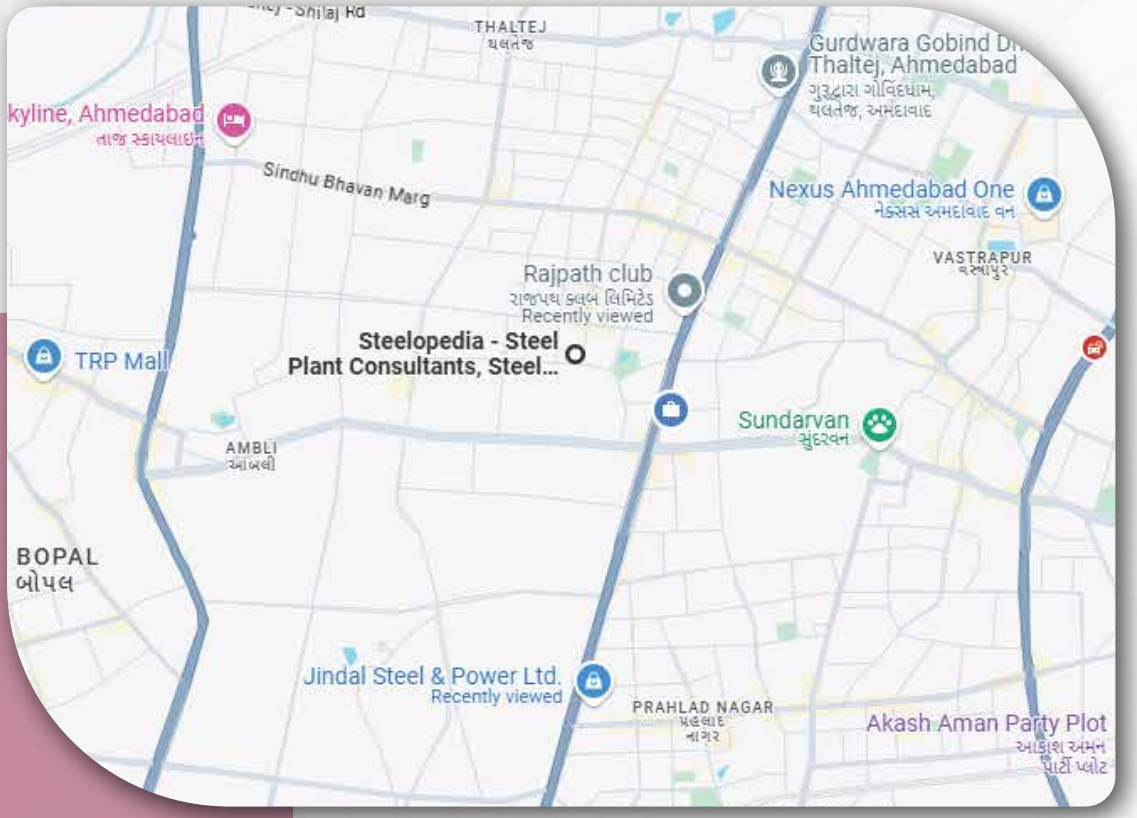
KEY POINT INDICATOR

We are an (ISO 9001:2015 Certified) export oriented company presently exporting in South East Asia & Middle East.
We are one stop solution for steel making plant from consulting to material supplies.
We can supply all types of machinery & consumables required for steel billet making.
We are also working in copper & Aluminum industry.
We are presently exporting to :

Malaysia | Sri Lanka | Oman | Singapore | Thailand | Vietnam | Philippines Indonesia | U.A.E. | Iraq

Further Expansion

Turkey | Iran/Iraq | Kuwait | Bahrain | Qatar | Saudi Arabia | Nigeria | Angola Uganda | Kenya | South Africa | Germany | Spain



Get In Touch

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