



SHREE GANESH

REFRATORIES



Quality, Every Product, Every Time

We are manufacturing all kinds of high alumina refractory products like fire bricks, castable etc...
and Dealing in Refractory Insulation Materials.

(AN ISO 9001:2015 COMPANY)

About Our Company.

Leading manufacturer of world class Refractories

Dear Sir,

Our brief introduction is as under:

We are one of the largest manufacturers of refractory products & provide total refractory solutions to our valued clients. Shree Ganesh Refractories Group is based at First unit at Wankaner, Morbi District of Gujarat/Kadi, Gujarat and second unit located in Bhilwara, Rajasthan in Western India. Our business philosophy is to develop long term relationship with all our customers and suppliers with supply of quality products, sharp delivery commitments and world class services.

We have our own raw material unit. This ensures better quality input raw materials. 04 kilns are engaged in production of Refractory fire clay and high alumina bricks, Acid proof bricks and Insulation bricks manufacturing. Some of Raw Materials are imported also.

Companies:

Shree Ganesh Refractories (SGR)

Shree Rams Refractory (SRR)

Our specialization is in very complex shapes.

- Fire clay & High Alumina Refractory Bricks
- Conventional Castable
- Dense Castable
- Insulating Castable
- Self-flow Castable
- Mortars
- Plastics Refractory
- High Alumina Refractory Cement
- Anti Acid Bricks, Tiles and Mortars
- Porosint / HFI / CFI Insulation bricks
- Stainless Steel Anchors (SS 304 & SS 310)
- Installation of the same.



PETROCHEMICAL



REFINERY



OIL & GAS



FERTILIZER

Vison & Mission

Shree Ganesh Refractories' Our mission is to be the top manufacturer and supplier of refractory materials, insulation materials, and acid-proofing materials. We strive to provide high-quality products that meet the specific needs of each industry, ensuring optimum performance and durability. With our extensive range of materials, we aim to contribute to the growth and success of our clients'



businesses by providing them with reliable solutions. Our team of experts is dedicated to continuous innovation and improvement, staying up-to-date with the latest advancements in the industry.

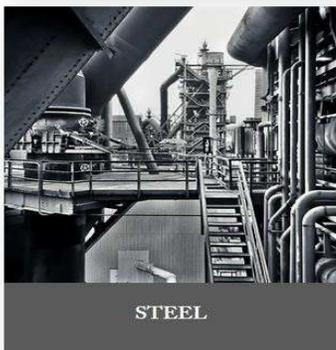
Our vision is to become the leading manufacturer and supplier of refractory materials, insulation materials, and acid proofing materials. We specialize in providing these materials for a wide range of industries including ceramic, steel, cement, paper, fertilizer, oil, salt, plywood, glass, chemical, and sugar industries. Our goal is to meet the specific needs of each industry by offering high-quality materials that are durable, efficient, and cost-effective. We strive to continuously innovate and improve our products to ensure that our customers receive the best solutions for their requirements.

- Specialize in custom production so as to meet specific needs and requirements.
- Always move forward - simplify our material flows and eliminate needless and time-consuming activities to make production faster and cheaper.
- Always add more - whether that's reduced operating costs or emissions, energy savings, or advantageous maintenance agreements.
- Communicate and act as an expert consultant and reliable partner from us first sales negotiations to our last maintenance response.

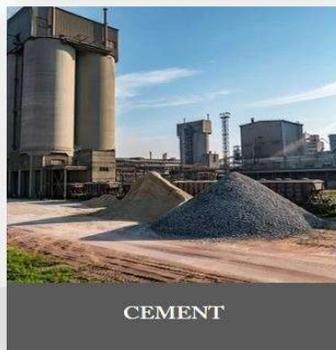
We supply refractories to the industries like steel, cement, aluminium, power generation, refineries, lime, glass, waste incinerators and non-ferrous industry.

We look forward to establish a long-term business relationship with your esteemed company and assure you of our best services at all times.

Performance with innovative solutions in shaped refractories -The Solution is Shree Ganesh Refractories (SGR) & Shree Ram's Refractory (SRR)



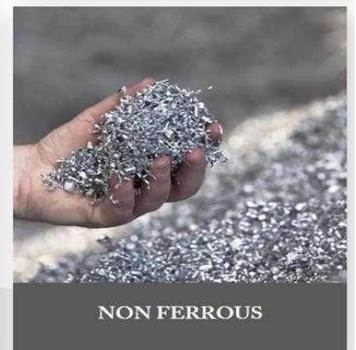
STEEL



CEMENT



MINING



NON FERROUS

Fire Clay and High Alumina Bricks

Physical and Chemical Indexes

Fire Bricks				Item Grade	High Alumina Bricks			
SK-30	SK-32	SK-34	SK-35	Refractoriness (S K)	SK-36	SK-37	SK-38	SK-40
28-30	34-36	38-40	44-46	Al ₂ O ₃ %	54-56	64-66	68-70	82-84
1.7-2.2	1.7-2.4	1.8-2.6	2.0-2.6	Fe ₂ O ₃ %	1.7-2.0	1.5-1.9	1.4-1.8	1.3-1.8
1330	1350	1370	1420	Refractoriness Under Load, (T _a °C)	1450	1480	1530	1600
1.9-2.0	1.95-2.1	2.1-2.2	2.15-2.22	Bulk Density (g/cm ³)	2.25-2.4	2.3-2.5	2.4-2.6	2.5-2.7
22-24	20-24	20-22	18-22	Apparent Porosity (%)	20-23	20-24	20-22	18-20
400-700	350-450	450-550	450-650	Cold Crushing Strength, (kg/cm ²)	550-750	650-850	750-950	850- 1250
±0.5 at 1300°C/2h	-0.8 to 0.3 at 1400°C/2h	-0.5 to 0.2 at 1450°C/2h	±0.7 at 1500°C/2h	PLC (%)	0.5 to 2.5 at 1400°C/2h	0.2 To 2.0 at 1450°C/2h	0.2 To 2.0 at 1500°C/2h	-0.3 To 10 at 1550°C/2h
1654/28	1659/29	1665/30	1743/33	PCE (°C/OC)	1804/36	1804/36	1804/36	1850/38

The Bricks we offer are widely applauded for their Dimensional Stability, Compressive strength and Durability. Moreover, Super heat duty and High Alumina Fire Bricks are the products made from different fractions of Refractory grog fire clays and calcined bauxite of high purity. The different fractions of these raw materials are mixed in counter current mixer and plugged for obtaining homogeneous mixture. the mixture obtained hence, is then pressed in high-capacity presses to give the desired shape and size. These pressed shapes are fired in high temperature tunnel kiln at 1300 °C and above. These bricks are manufactured as per IS:6 and IS:8 specifications and High Alumina, The Refractory fire clay bricks we produce are in standard, arch and special shapes. We provide these quality assured bricks to the clients at very nominal rates.

High And Low Purity Castables;

Refractory castables can be used to create the monolithic linings within all types of furnaces and kilns. They can be further classified into the following sub categories: conventional, low iron, low cement, and insulating for installation either by gunning or manually. There is a wide variety of raw materials that refractory castables are derived from, including chamotte, andalusite, bauxite, mullite, corundum, tabular alumina, silicon carbide, and both perlite and vermiculite can be used for insulation purposes.

Conventional castables are created with high alumina cement and can withstand temperatures from 1300 °C to 1500 °C.

Dense Castables is used as lining turning kiln, hot converter lining heat treatment furnace, furnaces of metallurgy industry, chemical industry and construction industry, circulation part of furnaces from 1300 °C to 1800 °C.



	Conventional Castables		Dense Castables		
	1400	1450	1500	1600	1750
Service Temperature °C	1400	1450	1500	1600	1750
Grain Size (max) In mm	0 TO 5	0 TO 5	0 TO 5	0 TO 5	0 TO 5
Water Required For Casting In %	10-11	10-11	9.5-10.5	9.5-10	7.5-8.5
Al ₂ O ₃ , %	45	70	50	60	90
Fe ₂ O ₃ , %	4.0	5.0	1.3	1.0	0.8
Bulk Density In Gm/cc Dry@100 °C for 24 Hrs	2.1	2.5	2.10	2.20	2.75
Cold Crushing (kg/cm ²) @ 110 °C	250	350	350	450	600
Refractoriness Under Load (rul)	1564	1683	1665	1683	1820
Permanent linear Change in (%) @ (temp x 3 Hrs)	+/-1.0 (1350 °c)	+/-1.0 (1400 °c)	+/-1.0 (1500 °c)	+/-1.05 (1500 °c)	+/-1.0 (1550 °c)
Application Areas	Boiler and Non-Ferrous	Boiler Non-Ferrous, and foundry	Rolling mills, Steel plants, Copper plants, Petro-Chemical	Rolling mills, Kilns, Steel plants, Non-ferrous	Boiler, DRI Kilns, Non-Ferrous, and foundry, Steel plants

Acid Resistance Bricks and Tiles;

Material: Vitrified / Fire Clay / Red shale

Size (mm): 230 (LENGTH) X 115 (WIDTH) X 100,76,65,50,40,38,30,25 (THICK)

Specification: IS 4457-2007, ASTM C279, ASTM C410, IS 4860-1982

Manufactured as per the Indian Standard Specification i.e.
I.S. 4860-1968 and ASTM C279,

Tests	As Per Indian Standard Specification I.S. 4860-1968 Our Values	
	1st Class	2st Class
Water absorption, %	0.8 to 1	2.8 to 3.8
Flexural Strength, kg/cm ²	>100	>80
Compressive Strength, kg/cm ²	>700	>500
Acid Loss, %	0.5 to 1	1 to 2
Resistance to wear in, mm	1 to 1.5	----
Warpage in mm	within the limit	within the limit
Tolerances	+/- 1	+/- 1
Length ± in mm	within the limit	within the limit

*The Above values & ranges are based on production averages, not to be considered as a limit for specification.

*Note: Specific Properties & specific Chemical Resistance refer to Technical Department.

Acid-Alkali resistant Tiles Size: -

1. 230x115x 20mm/200x200x10/12/15mm (as per IS 4457:2007)
2. 300x300x12/15/18mm (as per IS 4457:2007)

Acid Proof Bricks Size:

1. 230x115x38mm (as per IS4860 & ASTM C279)
2. 230x115x75mm (as per IS 4860 & ASTM C279)

Also, we can manufacture special shapes as per customer requests.

Acid Resistant Mortars;

We also manufacture and supply wide range of high-quality graded Acid Proof Cements, Epoxy mortars, Screed Mortars, Carbon filled mortars, Furan mortars, Potassium silicate mortars, Resins, Hardeners and its allied products as below.

Properties	Furane	Silicate	Epoxy
Colour	Black	Off White	Off White
Ratio (Solution: Powder)	1:3	1:3	1:5
Compressive Strength (kg/cm ²)	350	350	500
Flexural Strength (kg/cm ²)	75	75	150
Bond Strength (kg/cm ²)	10	10	10
Water Absorption (max %)	01	01	01
Temperature Resistant (max)	170	170	90
Self-Life @ 27 °C	60 Days	45 Days	90 Days

Refractory Mortars;

The mortar refractory is not an organic, non-metallic and absorbent in nature material. We can see the usefulness of this material by using this in Kilns, furnaces, other reactors, etc. Mortars are preferable in coating, patching, and bonding of alumina brick needs refractory mortar.

The mortar shall be composed of finely ground heat-resistant clays, minerals, or a mixture of clays and minerals in either a dry or wet condition. Dry—Mortar shall be furnished dry and shall be ready for use as soon as mixed with water. Mortar, after being mixed with water and then dried. Wet—Mortar shall be furnished ready for use at a trowelling consistency and shall be easily mixed with water to a dipping consistency.

Products delivered by us as below: -

Type	Nature Of Bond	Max. Service Temperature	Sintering Temperature	Maximum Grain Size	Water For Trowelling Consistency	Al ₂ O ₃	Fe ₂ O ₃	% Retained on aximum size	Pyrometric Cone Equivalent, Or ton/ °C	Packing
SRR Mortar 30	Ceramic	1350 °C	1100 °C	1.0 mm	35-45 %	31	2.80	1.5	23/1605	25/50 KGS BAG
SRR Mortar 40	Ceramic	1400 °C	1100 °C	1.0 mm	35-45 %	38	3.20	1.5	23/1621	25/50 KGS BAG
SRR Mortar 50 C	Chemical Ceramic	1500°C	1100 °C	1.5 mm	20-28 %	48	4.40	1.5	29/1659	25/50 KGS BAG
SRR Mortar 50 F	Chemical Ceramic	1500°C	1100 °C	0.5 mm	22-30 %	50	4.40	1.2	29/1659	25/50 KGS BAG
SRR Mortar 60	Chemical Ceramic	1500°C	1100 °C	1.0 mm	22-32 %	58	4.10	1.2	31/+1683	25/50 KGS BAG
SRR Mortar 70	Chemical Ceramic	1500°C	1100 °C	1.0 mm	22-32 %	68	4.25	1.1	33/+1743	25/50 KGS BAG
SRR Mortar 90 C	Chemical Ceramic	1500°C	1100 °C	0.5 mm	25-30 %	86	1.01	1.0	38/+1835	25/50 KGS BAG

Light Weight, Hot Face & Cold Face Insulation Bricks;

The light weight Insulation Bricks are very heavy in demand due to possessing innumerable properties. One such attribute of these bricks is their light weight which makes them pretty comfortable to use. Despite of being very light in weight, they are quite powerful and can withstand in high temperature. This makes your construction a world class and superior than any other.



Products delivered by us as below: -

PROPERTIES	Cold Face Insulation Bricks	Hot Face Insulation Bricks	Hot Face Insulation Bricks	LWFB	Hot Face Insulation Bricks	Hot Face Insulation Bricks	Hot Face Insulation Bricks
	SRR-7	SRR -8	SRR -9	SRR -10	SRR -13	SRR -14	SRR -15
Service Temperature in °C	1050	1200	1250	1250	1300	1400	1500
Bulk Density in gms/cc (Max)	0.80	0.85	0.90	1.00	1.10	1.20	1.30
Apparent Porosity in% (min)	70	65	60	60	55	50	50
Cold Crushing Strength in kg/Cm2/(min)	12	15	20	25	30	30	40
Thermal Conductivity in Kcal/M/ hrs/ °C (max) at Hot Face Temp. of 600 °C (max)	0.20	0.23	0.24	0.28	0.30	0.35	0.40
Permanent Linear Change after-heating(max) in % for 3 hrs at temperature of	1.5 (@1050) DEG.C	1.5 (@1200) DEG.C	1.5 (@1250) DEG.C	1.5 (@1250) DEG.C	1.5 (@1300) DEG.C	1.5 (@1350) DEG.C	1.5 (@1400) DEG.C

LOW CEMENT, HIGH ALUMINA, CLAY BONDED, CLAY BURND INSULATION CASTABLE:

Shree Ganesh Refractories is the global leader in manufacturing and delivering Refractory Castable. The global demand of our product speaks for us. To meet the quality standard, we put up our best efforts throughout the manufacturing process. And our efforts can be easily browsed in the final product we deliver. The final product is light in weight, highly durable and long lasting. Alongside, we do specialize in manufacturing excellent quality insulation castable. We opt the best standards from very start of our manufacturing procedure, starting with the material to the manufacturing process and the quality technique lasts through out the manufacturing procedure. Along with specified products, we also provide customized insulation castable as per customer's requirements.

TYPICAL AVERAGE DATA OF INSULYITECASTABLE

ITEM	Service Temp. Deg.C	Dry Density (gm/cc)	C.C.S. (Kg/Cm2) At 1100 Deg.C	At Max. Temp.	T.C. (Kcal/m /hr/°C) at 800°C	P.L.C. At 1100 °C	Al ₂ O ₃ %	Fe ₂ O ₃ %
SRRCAS-7	1000	0.65-0.7	10-12	6-8	0.15	± 2.5	30	5
SRRCAS-10	1100	0.9-1.0	15-20	10-14	0.27	± 1.0	33	6
SRRCAS-11	1100	0.9-1.0	20-25	15-20	0.29	± 1.5	33	3
SRRCAS-12	1200	1-1.1	25-30	20-25	0.31	± 1.5	35	2.5
SRRCAS-13A	1350	1.1-1.2	40-45	50-55	0.33	± 1.0	35	1.5
SRRCAS-13B	1350	1.2-1.3	50-60	50-70	0.35	± 1.0	35	3.2
SRRCAS-13C	1350	1.3-1.4	75-80	40-50	0.40	± 1.0	35	1.5
SRRCAS-14	1350	1.4-1.5	80-85	70-80	0.43	± 1.0	35	3.0

PHOSCAST-60 XR Refractory Castable;

PHOSCAST 60XR

Specification: -

Material	: - Refractory Castable
Type	: - 60% Alumina Dense Castable
Nature of Bond	: - Hydraulic
Installation	: - Vibration Casting
Max. Service Temperature	: - 2912 °F/1600°C
Maximum Grain Size	: - 5 mm
Water required for casting	: - 10.60 to 11.80%

Chemical Analysis (%)

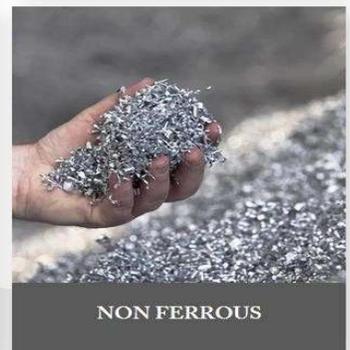
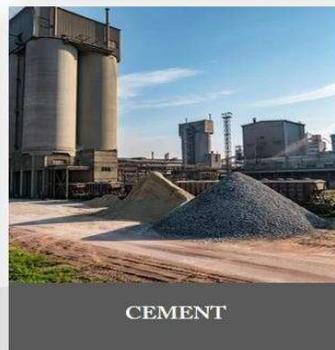
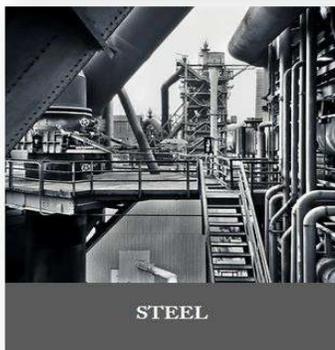
Content	Range	Typical Value	Test Procedure
Al ₂ O ₃	56 - 60	59.50	BIS 12107 Part 3
CaO	4.00 – 4.70	4.55	ASTM C 573
Fe ₂ O ₃	1.00 – 1.25	1.15	BIS 12107 Part 6

Physical Properties

Content	Range	Typical Value	Test Procedure
Dry Density, gm/cc (Pcf) After drying 230°F (110°C)/24 hrs.	2.15(134) – 2.25(140)	2.20 (137)	BIS 10570
CCS, Kg/cm ² After drying at 230°F (110°C) /24 hrs.	360 – 420	380	BIS 10570
After heating at 2012°F (1100°C)/3 hrs.	190 – 270	225	BIS 10570
After Heating at 2552°F (1400°C)/3 hrs.	380 – 450	400	BIS 10570
% Retained on maximum size	0-5	0.5	BIS 1528 Part 14

Thermal Properties

Content	Typical Value	Test Procedure
Refractoriness, Orton / °C	+31 / +1683	BIS 1528 Part 1
PLC % After Heating at 2012°F (1100°C)/3 hrs.	-0.16	BIS 10570
After heating at 2822°F (1550°C)/3 hrs.	-1.72	BIS 10570



PHOSCAST-90 XR Refractory Castable;

PHOSCAST 90XR

Specification: -

Material	: - Refractory Castable
Type	: - 90% Alumina Dense Castable
Nature of Bond	: - Hydraulic
Installation	: - Vibration Casting
Max. Service Temperature	: - 3180 °F/1750°C
Maximum Grain Size	: - 5 mm
Water required for casting	: - 10.5 to 11.5%

Chemical Analysis (%)

Content	Range	Typical Value	Test Procedure
Al ₂ O ₃	85.5 – 90.0	86.50	BIS 12107 Part 3
CaO	4.00 – 4.60	4.50	ASTM C 573
Fe ₂ O ₃	0.5 – 1.0	0.5	BIS 12107 Part 6

Physical Properties

Content	Range	Typical Value	Test Procedure
Dry Density, gm/cc (Pcf) After drying 230°F (110°C)/24 hrs.	2.50 – 2.70	2.68	BIS 10570
CCS, Kg/cm ² After drying at 230°F (110°C) /24 hrs.	600 – 680	655	BIS 10570
After drying at 1472°F (800°C) /24 hrs.	400 - 480	454	BIS 10570
After heating at 2012°F (1100°C)/3 hrs.	340 – 390	382	BIS 10570
After Heating at 2822°F (1550°C)/3 hrs.	580 – 670	610	BIS 10570
% Retained on maximum size	0-5	0.5	BIS 1528 Part 14

Thermal Properties

Content	Typical Value	Test Procedure
Refractoriness, Orton / °C	+36 /+1804	BIS 1528 Part 1
PLC % After Heating at 2012°F (1100°C)/3 hrs.	-0.12	BIS 10570
After heating at 2822°F (1550°C)/3 hrs.	-0.18	BIS 10570



STEEL



CEMENT



MINING



NON FERROUS

Our client regularly Exporting to below listed

Algeria, Bahrain, China, Egypt, Ethiopia, Germany, Indonesia, Iraq, Iran, Lebanon, Jordan, Japan, Kenya, Kuwait, Malaysia, Philippines, Maldives, Senegal, Tanzania, Zambia, Nigeria, UAE, Jeddah, Saudi Arabia, South Africa, Sri Lanka, Sultanate of Oman, Malawi, Egypt, Turkey, USA, Uganda, UK, Yemen, Ghana, Qatar, Myanmar, Latin America - Guatemala etc.



Shree Ganesh Refractories!

Best Regard's

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