

🌐 www.visorrefractory.com



**Manufacturer & Suppliers of
All Type of Refractory Materials**





VISOR REFRACTORY

ABOUT US

Visor Refractory is a professional managed organization engaged in the manufacturing and supplying of qualitative "Refractory Products" with the aid of an experienced team and robust infrastructure. Visor Refractory is run by a technically qualified team of engineers with in-depth knowledge and experience in the field of Refractory.

"We have been successfully catering to the chemical, iron, steel and various industries"

COMPANY STRATEGY

Purpose : To be a leader in the Refractory Products industry by providing enhanced Services, Relationship and Profitability.

Vision : To provide quality services that exceed the expectations of our esteemed customers.

Mission : To build long term relationships with our customers and clients and provide exceptional customer services by pursuing business through innovation and advanced technology.

CORE VALUE

- We believe in treating our customers with respect and faith.
- We grow through creativity invention and innovation.
- We integrity and business ethics into all aspects of our business functioning.

Quality Assurance : We believe recognizing that investment in quality is the best investment possible and that we achieve through designing and producing an end product that meets the major international standards.

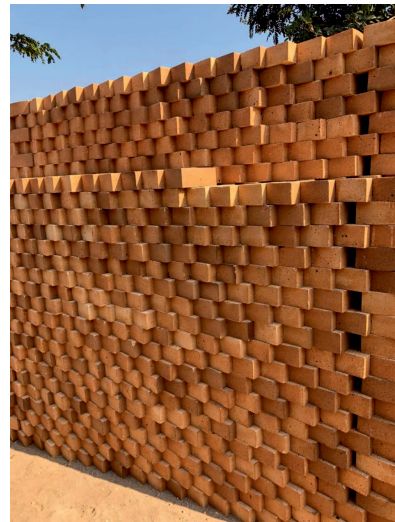
Goal : Our corporate goal is maximize the refractory service life of your equipment through quality materials engineered to suit your needs.

FIRE CLAY BRICKS AND HIGH ALUMINA BRICKS

PARTICULAR	Al ₂ O ₃ % Min	Fe ₂ O ₃ % Max.	P.C.E. (O.C.) Min.	APPARENT POROSITE % Max.	CCS (Kg/cm ²) No.	RUL (Ta°C) Max	BULK DENSITY (gntx) Me.	PLC % Max.	APPLICATION AREA
VR IS 6	30	2.5	29	26	200	1300	2.00	±1.0 at 1300° C/2hrs	For Chimney flue, Boiler & Sugar Industry.
VR IS 8	40	2.8	32	24	300	1400	2.15	±1.0 at 1400° C/2hrs	For Cement Preheater, Cyclone, Silicate Furnace & Other moderate Heat duty Applications.
VR 45	45	3.0	32	24	350	1400	2.20	±1.0 at 1400° C/2hrs	For Cement Preheater, Cyclone, Silicate furnace & Other Moderate heat Duty Applications.
VR 50	50	3.0	33	24	400	1400	2.30	±1.0 at 1450° C/2hrs	Low porosity dense bricks for abode backing furnace & blast furnace
VR 55	55	3.5	33	24	400	1410	2.45	±1.5 at 1450° C/2hrs	Fore Cement kiln preheating zone & Reheating furnace wall
VR 60	60	3.5	35	24	450	1450	2.50	±2.0 at 1450° C/2hrs	Calciantion zone of Cement rotary kiln & Copper melting furnace
VR 70	70	3.5	36	23	550	1460	2.65	±2.5 at 1500° C/2hrs	Reheating furnace wall, Burning zone of Cement rotary kiln & Ladle backup.
VR 80	80	1.8	37	20	600	1520	2.75	±0.5 at 1500° C/2hrs	EAF Rest, Ladle Lining & other High heat duty Special application
VR 85	85	1.5	38	19	700	1550	2.80	±0.5 at 1500° C/2hrs	Special type of high temperature & High abrasion application

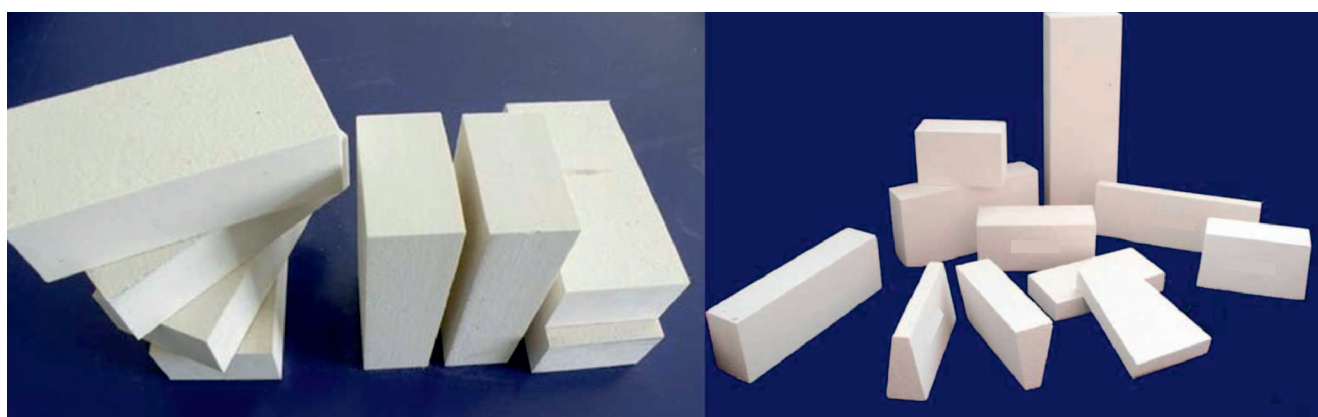
BOTTOM POURING SETS

Bottom Pouring Sets are a combination set of runner bricks and special hollow shapes for bottom pouring molten metal. These are processed from high quality refractory grog, plastic & non-plastic fire-clays and pressed in high capacity friction screw power presses and hydraulic presses to obtain the perfect collar, shape & dimensions. Our BP Sets are highly resistant to abrasion and can withstand temperatures upto 1350°C



INSULATING BRICKS

PARTICULARS	VR CFI	VR HFI	VR HFK
CHEMICAL PROPERTIES			
SiO ₂ (%)	69.7	61.5	54.1
Al ₂ O ₃	24.3	33.2	41.5
Fe ₂ O ₃ (%)	2.2	1.9	1.8
TiO ₂ (%)	2.0	2.5	1.9
CaO + MgO (%)	0.5	0.3	0.2
Others (%)	0.9	0.6	0.5
Max. Service Temp. (OC)	0.9	0.6	0.5
Nature of Bond	1000	1350	1400
Raw material Base	Fire Clay & Mica	Fire Clay & Kyanite	Fire Clay & Kyanite
PHYSICAL PROPERTIES			
Reversible Thermal Expansion (% at 1000°C)		0.50	0.50
BD (gm/cm ³) Max	0.90	1.05	1.0
AP (%) Min	60	55	55
CCS (kg/cm ²) Min	10	25	25
PCE (orton) Min	20	29	30
PLC (%) Max	± 1.5 at 1000 °C/S hr	± 1.5 at 1350 °C/S hr	± 1.5 at 1400 °C/S hr
Thermal Conductivity (Kca/m/hr ⁰ C)			
300°C		0.24	0.26
500°C		0.26	0.29
800°C		0.28	0.31
Weight of Std Brick (approx.) (Kg.) Size : 230x114x76mm	1.70	2.10 Backup	2.00 Backup
Application area	Backup lining for Boiler & Reheating Furnace	lining for Glass tank furnace & Blast furnace	lining for Glass tank furnace & Blast furnace



SPECIFICATION SHEET FOR BASIC REFRACTORIES

PARTICULARS	MgO % (Min.)	Cr ₂ O ₃ % (Max.)	SiO ₂ % (Max.)	A.P. % (Max.)	B.D. gm/cc (Min.)	C.C.S. Kg/cm ² (Min.)	R.U.L Ta °C (Min.)	APPLICATION AREA
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MAGNESITE BRICKS

VR-MGB-87	85	-	6.5	22	-	350	1550	Used in Oper hearth furnace, Electric arc Steel melting furnace, Hot metal mixer, Permanent lining of LD converter, Copper refining furnace and General applications.
VR-MGB-87	87	-	5.5	22	-	350	1600	
VR-MGB-91	91	-	-	23	-	400	1500	Used in Electric arc steel melting furnace, B.O.F.
VR-MGB-97	97	-	0.5	18	2.9	450	1700	Suitable for Glass & Chemical Industries.

MAGNESITE CHROME BRICKS

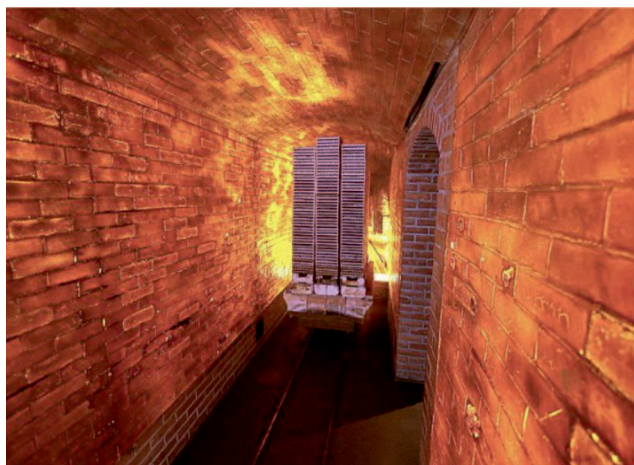
VR-MCB-1	60	12	-	24	-	250	1550	Open hearth furnace. B.O.F., Secondary Steel refining, Rotary kiln for Cement and Dolomite Calcination & General application.
VR-MCB-2	72	6	-	23	-	250	1550	
VR-MCB-3	63	11	-	22	-	300	1580	

MAGNESITE CHROME BRICKS

VR-CHMB-1	35	22	-	25	-	200	1580	Open hearth furnace front & back walls, Gus ports & uptakes etc.
VR-CHMB-2	35	18	-	24	-	250	1550	Rotary kiln, Open hearth furnace & Electric arc furnace.

MAGNESIA CARBON BRICKS

PARTICULARS	MgO% Calcined Basis	C% Residual Carbon	A.P.% (Max)	B.D. gm/cc (min)	C.C.S. kg / cm ² (Min)	M.O.R. kg / cm ² At room temp.	APPLICATION AREA
VR-MGCRB	97	8-11	3-6	2.95	500	125	non walling characteristic LF, VD, VAD, Slag Zone, EAF, Hot Spot, L.D. Converter wear lining, VOD, VAD Ladle etc.



Carburization furnace

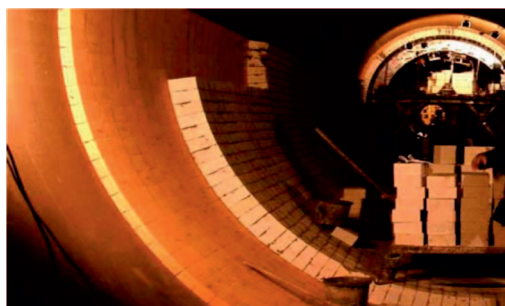
SPECIFICATIONS OF HIGH PURITY DENSE CASTABLES

PARTICULARS	VR CAST A	VR CAST K	VR CAST C	VR CRETE SUPER	VR CRETE NORMAL	VR CAST 94	VR CAST 97	VR SET-50 (FINE)
GENERAL PROPERTIES								
Service Temp. °C (Max)	1750	1600	1500	1450	1400	1800	1850	1500
Grain Size mm (Max)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.5
Water Required for Casting %	7.5-8.5	9.5 - 10.5	9.5 - 10.5	10 - 11	10.5 - 11.5	8.5 - 9.5	8.5 - 9.5	8.5 - 9.5
CHEMICAL PROPERTIES								
Al ₂ O ₃ (Min)	90	60	50	70	45	94	96	50
Fe ₂ O ₃ (Min)	0.8	1.0	1.30	5.0	4.0	0.30	0.30	4.00
PHYSICAL PROPERTIES								
Bulk Density (gm/cc) (Dried at 110°C for 24 hrs.) (Min.)	2.75	2.20	2.1	2.50	2.10	2.8	2.8	-
Cold Crushing Strength (Kg/cm ²) 110°C	600	350	350	350	250	600	400	-
THERMAL PROPERTIES								
REFRACTORINESS Under Load °C (Min)	1820	1683	1665	1683	1564	1835	1835	1835
Permanent Linear Change (%) (Temp. x3 hrs at 1550°C (Max))	±1.00 (1150°C)	±1.50 (1550°C)	±1.00 (1550°C)	±1.00 (1550°C)	±1.00 (1150°C)	±0.50 (1550°C)	±0.80 (1550°C)	- (1550°C)



INSULATING CASTABLES

PARTICULARS	VR LYTE 4	VR LYTE 7	VR LYTE 9	VR LYTE 11	VR LYTE 13	VR LYTE 15
GENERAL PROPERTIES						
Service Temp. °C (Max)	1000	1100	1200	1300	1350	1350
Grain Size mm (Max)	6.0	6.0	6.0	6.0	6.0	6.0
Water Required for Casting %	80-100	60-65	38-43	29-34	26-31	23-28
CHEMICAL PROPERTIES						
Fe ₂ O ₃ (Max)	11.00	8.50	6.00	3.50	3.50	3.20
PHYSICAL PROPERTIES						
Bulk Density (gm/cc) (Dried at 110°C for 24 hrs.) (Min.)	550	850	1000	1250	1450	1600
Cold Crushing Strength (kg/cm ²) 110°C	4	12	15	35	50	90
800°C	2	4	5	25	30	60
1100°C	-	6	10	25	30	60
1300°C	-	-	-	40	50	70
THERMAL PROPERTIES						
REFRACTORINESS Under Load °C (Min)	-	1337	1398	1398	1398	1430
Permanent Linear Change (%)	-	-	-	-	-	-
800°C (tem.x3hrs) (Max)	± 0.40	± 0.80	± 0.60	-	-	-
1100°C	± 0.60	± 1.20	-	± 0.20	± 0.20	± 0.20
1200°C	-	-	± 1.00	-	-	-
1300°C	-	-	-	± 1.00	± 0.80	± 1.00
1350°C	-	-	-	-	-	-



HIGH ALUMINA CEMENT

PARTICULARS	VRCEM - 50	VRCEM-70	VRCEM-75
Al ₂ O ₃ % Min	45.0	68.0	72.0
Fe ₂ O ₃ % Max	4.5	0.30	0.25
CaO%max	34.0	30.0	26.0
SiO ₂ %Max	5.5	1.0	0.5
PHYSICAL PROPERTIES			
Setting time (in minutes)			
Initial, min	50.0	30.0	40.0
Final, max	400.0	400.0	400.0
CCS (Kg/cm ²)			
After 1 day	350	450.0	450
After 1 day cured + 1100C/24hrs		650.	600.0
After 3 Days	450.0		
Refractoriness Under Load (orton/ ^o C) Min	13/1349	20/1564	31/1683
Application Area	For Manufacturing of general purpose Castable	For manufacturing of high purity and high density castable.	For Manufacturing of high purity and high density castable.

LOW CEMENT CASTABLES

PARTICULARS	VR LC 45	VR LC 60	VR LC 70	VR LC 80	VR LC 90	VR LC 95
GENERAL PROPERTIES						
Service Temp. °C (Max)	1500	1600	1600	1700	1700	1800
Grain Size mm (Max)	6.0	6.0	6.0	6.0	6.0	6.0
Water Required for Casting (%)	4.8-5.5	4.7-5.4	4.7-5.4	4.7-5.2	4.0-4.8	4.2-5.0
CHEMICAL PROPERTIES						
Al ₂ O ₃ (Min)	45.00	60.00	70.00	80.00	90.00	94.00
Fe ₂ O ₃ (Max.)	1.00	1.50	1.50	1.80	1.00	0.30
PHYSICAL PROPERTIES						
Bulk Density (gm/cc) (Dried at 110°C for 24 hrs. (Min)	2.3	2.6	2.7	2.9	3.1	3.0
Cold Crushing Strength (kg/cm ²) 110°C	700	750	750	800	950	1000
800°C	800	800	800	900	1000	1050
1100°C	900	900	900	1000	1100	1100
1500°C	1000	1000	1200	1200	1250	1200



MORTARS

PARTICULARS	Al ₂ O ₃ %	Fe ₂ O ₃ %	PCE Orton Cone (°C)	Service Temp (°C)	APPLICATION AREA
VR-Mortar-IS-6	22.0	2.5	20/1564	1350	For laying of 30% Al ₂ O ₃ Bricks
VR- Mortar-IS-8	38.0	2.8	31/1683	1450	For laying of 40% Al ₂ O ₃ Bricks
VR-Mortar-45	42.0	2.8	31 ½ / 1699	1500	For laying of 45% Al ₂ O ₃ Bricks
VR-Mortar-50	48.0	3.0	32/1717	1500	For laying of 50% Al ₂ O ₃ Bricks
VR-Mortar-60	55.0	3.5	33/1743	1550	For laying of 60% Al ₂ O ₃ Bricks
VR-Mortar-70	65.0	3.5	34/1763	1600	For laying of 70% Al ₂ O ₃ Bricks
VR-Mortar-80	75.0	2.5	36/1804	1700	For laying of 80% Al ₂ O ₃ Bricks
VR-Mortar-85	80.0	2.0	37/1824	1750	For laying of 85% Al ₂ O ₃ Bricks
VR-SILL	50-52	1.5	34/35	1450	Ceramic

BASIC MORTARS

PARTICULARS	MgO % (Min)	Fe ₂ O ₃ % (Max.)	SiO ₂ % (Max.)	Grading (mm)	Setting	Sintering Temp °C	Service Temp °C	APPLICATION AREA
VR - MGMOT	84	-	-	0-0.5	Ceramic	1600	-	Mortar for laying magnesite bricks
VR - MGMOT	50	15	-	0-0.5	Ceramic	1650	-	Mortar for laying magnesite chromite bricks
VR - MGMOT	20	30	-	0-0.5	Ceramic	1650	-	Mortar for laying chrome magnesite bricks
VR - CHRMOT	-	40	-	0-0.5	Ceramic	1650	-	Mortar for laying chromite bricks & as a neutral layers for silica brics.

REFRACTORY BED MATERIAL

TECHNICAL SPECIFICATION

CHEMICAL PROPERTIES

Alumina as Al ₂ O ₃	28 - 32% Min.
Silica as SiO ₂	60 - 65 % Max.
Alkalis (Na ₂ O + K ₂ O)	Less than 1%
Iron as Fe ₂ O ₃	Less than 1.5%

PHYSICAL PROPERTIES

Shape	Sub-angular to Rounded
Hardness	6.8 to 7.2 MOHS
Nature	Dry
Initial Deformation Temperature (IDT)	Greater than 1300°C

FOR AFBC BOILERS

Particle Size	0.85 to 2.36 mm, 0.85 to 2.00 mm
Bulk Density	1050 to 1100 kg/m ³

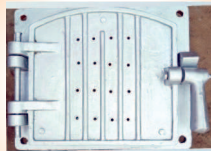
FOR CFBC BOILERS

Particle Size	0.15 to 0.85 mm, 0.25 to 0.50 mm
Bulk Density	1100 to 1150 kg/m ³

CERAMIC FIBER & CAST IRON PRODUCTS

Our special Insulation range of products are manufactured from alumina-silicate materials through fiberization of the molten materials,. These fibers have important features of high temperature stability, low thermal conductivity, low heat storage, light weight, super corrosion resistance and thermal stability.

We also Provide Fire Gate and Boiler Nozzle, These Products are Designed and Manufactured under the Guidance of Accomplished Team of Professionals, using high quality raw material with the help of progressive technology in observance with defined quality standards



Fire Gate



Boiler Nozzle



Asbestos Rope



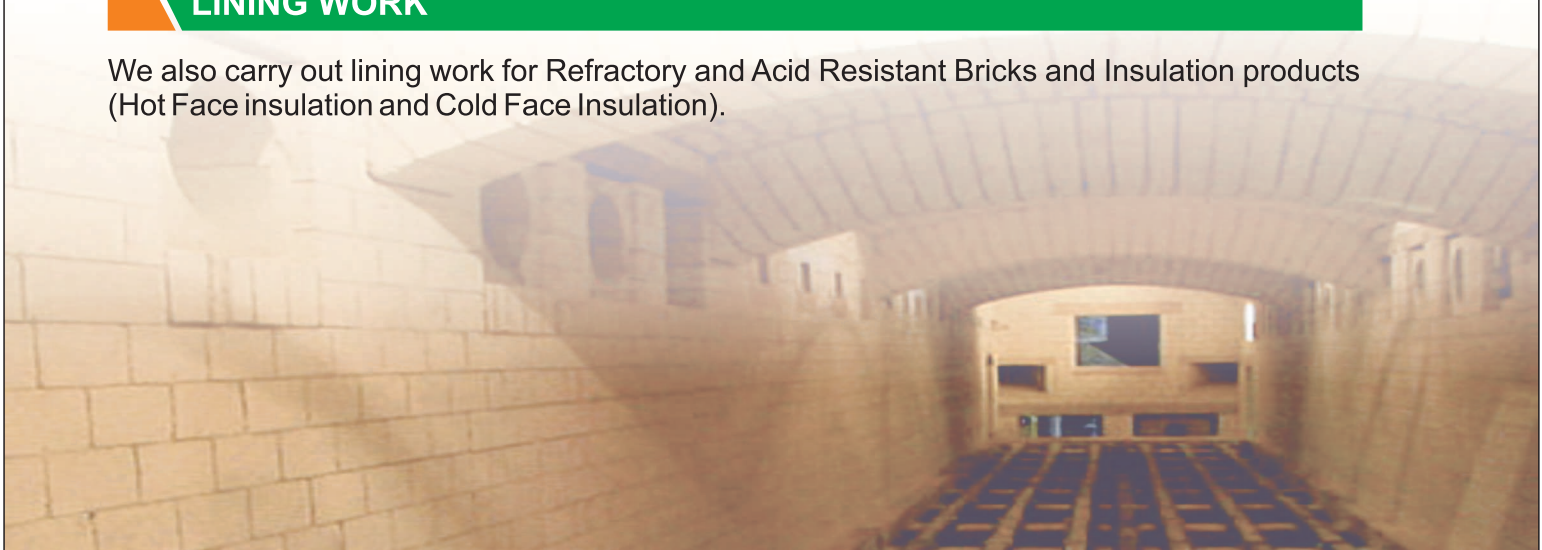
Asbestos Mill Board



Ceramic Blankets

LINING WORK

We also carry out lining work for Refractory and Acid Resistant Bricks and Insulation products (Hot Face insulation and Cold Face Insulation).



WHY US ?

We are an ISO 9001:2015 certified company that leverages our years of extensive experience and expertise of the industry and our dedicated and efficient team to consistently deliver trustworthy refractory products to our industry-leading clients.

Each of our deliveries is shipped with a Test Certificate report signed by the respective Quality Control Manager, Packaging needs are also taken care of specific to each product, delivery mode and location, ensuring your material reaches you in perfect condition.

“ We work hard to understand the needs of your industry and its applications for refractories and hope to create additional value for your products, services and operations.”

- Experienced and Trusted Refractory manufacturers and Suppliers.**
- Excellence through Quality, Reliability and Consistency.**
- Largest Portfolio of Product.**
- Wide marketing Network.**
- Highly qualified Commercial and Technical Team**
- Fully developed Infrastructure**
- 100% After Sale Support**



APPLICATIONS

- CHEMICAL & ALLIED INDUSTRIES
- CEMENT INDUSTRIES
- STEEL INDUSTRIES
- PAPER INDUSTRIES
- CASTING INDUSTRIES
- REFRACTORY
- SUGAR INDUSTRIES
- POWER PLANT
- ROLLING MILL MACHINERY
- OIL & PETROLEUM INDUSTRIES
- RUBBER INDUSTRIES
- FOOD PROCESSING
- REFINERIES
- TEXTILE INDUSTRIES
- AGRICULTURE INDUSTRIES
- PHARMACEUTICAL INDUSTRIES
- ENGINEERING



VISOR REFRACTORY

"V R FOR YOU"

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