



SINCE 1952

We believe in excellence



Yajan Refractories

Manufacturer & Export of All Types of Refractories

An ISO & CE Certified Company





About us

Our business, established by **TALSHIBHAI JIVABHAI KANSAGARA** was initiated in 1952. Over the years, we have gained expertise in expanding raw material enhancements. In 2011,

MAGANBHAI TALSHIBHAI KANSAGARA took the initiative to develop new products, further strengthening our presence in the market.



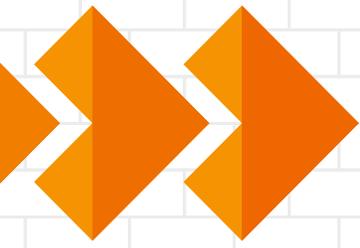


What is refractory ?

Refractories are inorganic nonmetallic material that can withstand high temperatures without undergoing physicochemical changes while remaining in contact with molten slag, metal, and gases. It is necessary to produce a range of refractory materials with different properties to meet a range of processing conditions.

The refractory range incorporates fired, chemically and carbon bonded materials that are made in different combinations and shapes for diversified applications.





REFRACTORIES PRODUCTS

FIRE BRICKS & HIGH ALUMINA BRICKS

A fire brick, firebrick, or refractory is a block of ceramic material used in lining furnaces, kilns, fireboxes, and fireplaces. A refractory brick is built primarily to withstand high temperatures, but will also usually have a low thermal conductivity for greater energy efficiency.

These are used for Inner surface lining of kilns, furnaces, chimneys etc. To build fire-resistant structures thereby reducing the damage of the structure against fire accidents.

STD BRICKS	SIDE ARCH	END ARCH
9" x 6" x 3"	9" x 6" x 3" / 2.5" , 2"	9"x4.5"x3" / 2.5" / 2"
9" x 4.5" x 3"	9" x 4.5" x 3" / 2.75"	9" x 4.5"x 3" / 2.75"
9"x 4.5" x 2.5"	9" x 4.5" x 3" / 2.5"	9" x 4.5" x 3" / 2.5"
9"x 4.5" x 2"	9" x 4.5" x 3" / 2"	9"x 4.5" x 3" / 2"
9"x 4.5" x 1.5"	9" x 4.5" x 3" / 1.5"	9" x 4.5" x 3" / 2" / 1.5"
9"x 4.5" x 1"		

All the sizes mentioned above will be available according to the quality

BOTTOM POURING SET (B.P SET)

Looking to the bottom pouring sets are considered as a complete combination of runner bricks and special hollow shapes for the bottom pouring molten metals. As per the bottom pouring sets manufacturers, these shapes are processed from the refractory grog, plastic fire clays and even from that of non-plastic clays.

INSULATION FIRE BRICKS

Insulating Fire Bricks are a special type of brick that can handle high temperatures and act as insulation. Insulating firebrick is used to line fireplaces, fireboxes, furnaces and kilns. It is sometimes referred to as "refractory brick" and is designed to withstand temperatures of up to 1760°C while actually conducting very little of that heat in order to provide a greater level of energy efficiency.

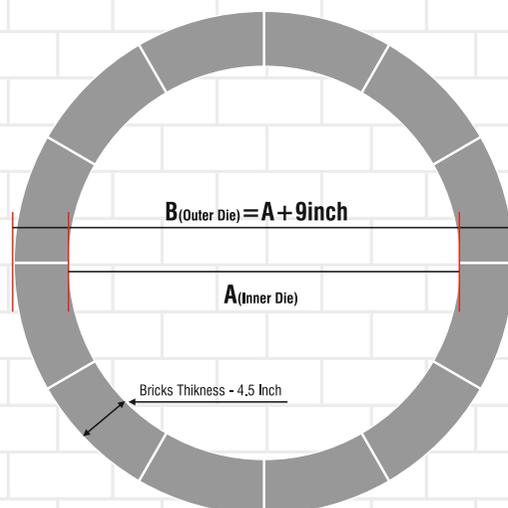
Insulating firebrick is a refractory brick or block, of a ceramic material that is commonly used in a variety of different applications including fireboxes, all types of furnaces, melting and industrial kilns.

- HOT FACE INSULATION (HFI)
- COLD FACE INSULATION (CFI)
- HOT FACE KYNETIC BASED INSULATION (HFK)
- POROSINT BRICKS

REFRACTORIES PRODUCTS

CUPOLA BRICKS

Cupola bricks are a special type of bricks that have industrial use. These bricks are specially designed for use in different types of furnaces in foundries. These bricks find many uses in various industries such as ceramic, paper, sugar, steel, chemical, and fertilizer. These bricks are not straight but curved and easily line up kilns and furnaces. YAJAN has a long experience in manufacturing and export in these cupola bricks products foundries. These bricks made by us are in high demand among our clients because they are very rigid and offer great thermal and chemical resistance.



Features of Cupola Bricks

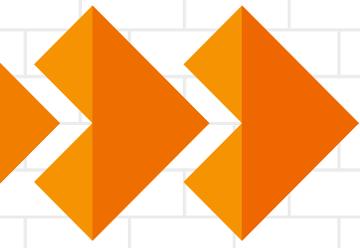
- Anti-abrasive
- Porous
- Provide resistance to high temperatures and chemicals
- Excellent finish
- Available in different shapes and sizes
- Made using high quality raw materials
- Easy to line all types of furnaces

Cupola Bricks We are Manufacturing Rang

- Cupola Bricks (9"x4.5"x3" - 09D to 63D)
- Cupola Bricks (11"x4.5"x3" - 27D, 30D, 33D, 36D, 39D, 42D, 45D)
- Cupola Cutting Bricks (15D, 18D, 21D, 24D, 27D, 30D, 33D, 36D, 39D, 42D, 48D)
- Cupola Ladle Bricks (16D40mm, 18D25mm, 32D50mm)
- Cupola Bricks SPL (8"x6"x4"x4", 8.8"x6.8"x4"x4", 9"x7"x5"x5", 15D (9"x10.5"x3"))

REFRACTORIES SPECIAL SHAPE BRICKS

- Refractories Slab
- Refractories Burner Block (Regular, Wastman, Slot Type)
- Refractories T Bricks•Refractories Circle/Half Circle Bricks
- Refractories Skew Block
- Refractories Half Round Block
- Refractories Arch Block
- Refractories Key Bricks



REFRACTORIES PRODUCTS

CERAMIC FIBRE PRODUCT

YAJAN REFRACTORIES is a one-stop source for all ceramic fiber needs. We represent ORIENT CERAMIC FIBERTECH LLP, a leading producer of high-temperature insulation products for a wide variety of industrial applications. YAJAN REFRACTORIES supplies many different ceramic fibers in a variety of product ranges, including bulk fibre, blankets, boards, modules, papers

Ceramic fiber products have many advantages, including high-temperature stability, lightweight, superior insulation, and ease of application. ORIENT fiber products are available in a variety of product forms to solve a range of thermal management application problems across various industries. The main industrial market segments that use ORIENT ceramic fiber, and soluble fiber products are aluminium, iron, steel, heat treating, power, incineration, boilers, glass, etc.

- Ceramic Fiber Blanket
- Ceramic Fiber Board
- Ceramic Fiber Bulk
- Ceramic Fiber Module
- Ceramic Fiber Paper

CERAMIC FIBRE BLANKET

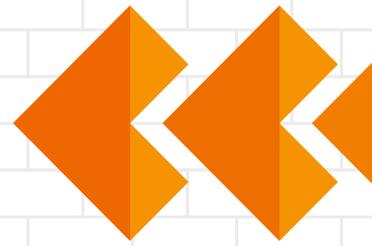
Product Name	Size	Density	Temperature	
			RT - 1260	ZT - 1425
Ceramic Fiber Bulk	Bulk	---	✓	✓
Ceramic Fiber Blanket	7300 x 610 x 25	64	✓	---
		96	✓	---
		128	✓	✓
Ceramic Fiber Blanket	3650 x 610 x 50	64	✓	---
		96	✓	---
		128	✓	✓

size can be Customized as per requirements thickness available in 12-50mm
Maximum Board Dimensions is 1200 x 600 x 50mm

CERAMIC FIBRE BOARD

Product Name	Size	Density	Temperature		
			LT - 1100	RT - 1260	ZT - 1425
Ceramic Board	1000 x 500 x 25	320-380	✓	✓	✓
Ceramic Board	1000 x 500 x 50	320-380	✓	✓	✓

Size can be Customized as per requirement Maximum Board Dimension is 1200 x 600 x 50mm and Thickness available 18-50mm
Customized Density Available 450, 720



REFRACTORIES PRODUCTS

CERAMIC FIBRE MODULE

Product Name	Size	Density	Temperature	
			RT - 1260(Viniour)	RT - 1260(Cerlock)
Ceramic Fiber Module	9" x 9" x 9"	64	✓	✓
		96	✓	✓
		128	✓	✓

Size can be Customized as per requirments

CERAMIC FIBRE PAPER

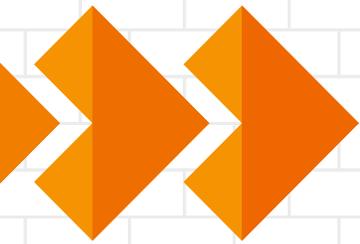
Product Name	Size	Density	Temperature
			RT - 1260
Ceramic Fiber Modul	1000 x 500 x 2mm	240	✓
	1000 x 500 x 3mm	240	✓
	1000 x 500 x 5mm	240	✓

REFRACTORIES CASTABLE

A refractory mixture with heat resistant hydraulic cement and binders that can be cast in place. Castable refractory has many applications in industry as well as studio ceramics. It is often used in kiln construction because it is easy to use and mix, and reasonably priced.

REFRACTORIES MORTAR

Refractory mortar is a specially engineered mixture of sand, calcium aluminate, cement, and fireclay. It is used to lay firebrick in places that are exposed to extremely high temperature. The refractory mortar is utilized only to build fire places and shall not be applied on hot faces



REFRACTORIES PRODUCT TECHNICAL SPECIFICATION

FIRE CLAY BRICKS

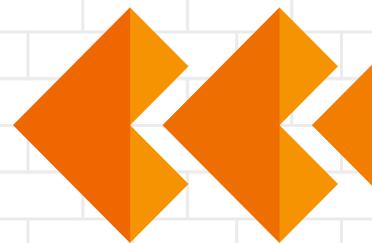
CHEMICAL ANALYSIS	YAJAN 30	YAJAN 37	YAJAN 40	YAJAN 45	YAJAN 50
Al ₂ O ₃ % min	30	37	40	45	50
Fe ₂ O ₃ % min	4	4	4	4	4
PHYSICAL PROPERTIES					
B.D. (Gm/ccs) min.	1.9	2	2.1	2.2	2.75
A.P. % max	25	23	23	21	23
C.C.S. (Kg/Cm ²) min.	250	300	350	370	400
THERMAL PROPERTIES					
P.C.E.(OOC) min.	31	31.5	32	32	32.5
R.U.L. (TaOC at 2kg/Cm ²) min.	1350	1370	1400	1420	1430
P.L.C. % max	± 1.5 at 1350 OC /2 Hrs.	± 1.5 at 1400 OC /2 Hrs.	± 1.5 at 1450 OC /2 Hrs.		

HIGH ALUMINA BRICKS

CHEMICAL ANALYSIS	YAJAN 55	YAJAN 60	YAJAN 65	YAJAN 70	YAJAN 75
Al ₂ O ₃ % min	55	60	65	70	75
Fe ₂ O ₃ % min	4	4	4	5	5
PHYSICAL PROPERTIES					
B.D. (Gm/ccs) min.	2.4	2.55	2.6	2.65	2.7
A.P. % max	23	23	23	23	22
C.C.S. (Kg/Cm ²) min.	400	430	450	500	600
THERMAL PROPERTIES					
P.C.E.(OOC) min.	33	34	34.5	35	36
R.U.L. (TaOC at 2kg/Cm ²) min.	1440	1470	1460	1470	1480
P.L.C. % max	± 1.5 at 1450 OC /2 Hrs.	± 1.5 at 1500 OC /2 Hrs.	± 2 at 1500 OC /2 Hrs.	± 2 at 1500 OC /2 Hrs.	± 2.5 at 1500 OC /2 Hrs.

NOTE:

- 1) SIZE TOLERANCE : + 1.5% OR 2MM WHICHEVER IS GREATER
- 2) SHAPING DRY PRESSING.
- 3) THE ABOVE DATA ARE ON AVERAGE RESULT BASIS



REFRATORIES INSULATION BRICKS

COLD FACE INSULATION / HOT FACE INSULATION

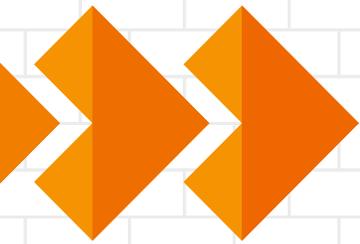
Product	Al ₂ O ₃ % min	Fe ₂ O ₃ % max	Bulk Density	A.P. % min	C.C.S Kg/Cm2 max	Thermal Conductivity at 600°C mean temp W/MK	Refractoriness	Service Temp.	PCE
CFI	30	2.5	0.8	65	15	0.35	30	1250	-
HFI	30	2.5	0.9	60	20	0.40	30	1300	-

HOT FACE KYNETIC BASED INSULATION (HFK) / POROSINT BRICKS

PROPERTY	HFK-125	HFK135	HFK-140	JM-23	JM-26
MAXIMUM SERVICE TEM *C	1250 c	1350 c	1400 c	1260 c	1350 c
BULK DENSITY (gm/cc)	1 max	1.10 max	1.10 max	0.70 max	0.80 max
CCS (kg/cm2)	25 min	30 min	30 min	20 min	25 min
AP %	60%	55%	55%	55%	45%
	±1.0 max				
CHEMICAL ANALYSIS					
Al ₂ O ₃	25-30	30-35	35-40	35-40	50-40
Al ₂ O ₃	1.0 max	1.0 max	1.2 max	1.0 max	1.0 max

TOLERANCE: + 1.5% OR + 2MM WHICHEVER IS GREATER.

THE ABOVE DATA ARE ON AVERAGE RESULT BASIC SUBJECT TO NORMAL VARIATION ON INDIVIDUAL TESTS. HENCE, IT CANNOT BE TAKEN AS SPECIFICATIONS.



SPECIFICATION OF REFRACTORIES CASTABLE

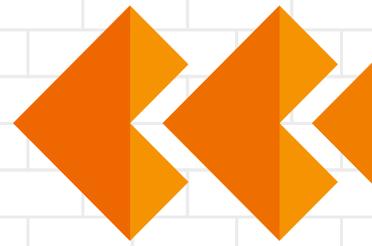
PARTICULERS	YR HEAT-A	YR HEAT-K	YR HEAT-C	YR CRETE SUPER	YR CRETE NORMAL
GENERAL PROPERTIES					
Service Temp °C (Max)	1700	1550	1500	1450	1400
Grain Size mm (Max)	5	5	5	5	5
Water Required for Casting (%)	9-10	10-12	10-12	10-12	9-10
CHEMICAL PROPERTIES					
A1203 (Alumina %) Min.	85-88	58-60	45-50	60-65	45-50
Fe2O3 (%) Max.	1.50-2.00	1-1.75	1.50-2.00	4.50-5.00	4.00-4.50
PHYSICAL PROPERTIES					
Bulk Density (gm./cc) Dried at 110°C for 24 hrs.	2.75	2.20	2.20	2.60	2.20
CCS (Cold Crushing Strength Kg/cm ²) 110°C.	600	350	350	350	300
THERMAL PROPERTIES					
Refractoriness Under Load °C (Min.).	1800	1700	1650	1650	1600
Permanent Linear Change (%) (Temp x 3hrs.) At 1550°C (Max.)	±1.00	±1.75	±1.00	±1.00	±1.00

■ Data represents typical average Properties and don't constitute a Specification. Details of Sample Drawn in KGS/Random

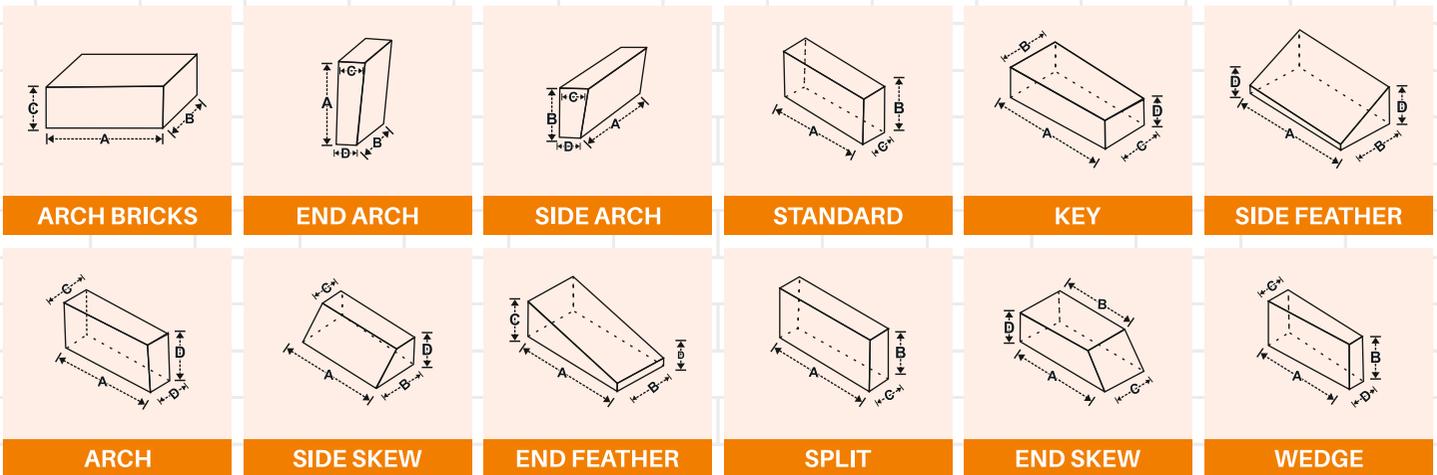
SPECIFICATION OF FIRECLAY & HIGH ALUMINA MORTOR

PROPERTIES	YR 30	YR 40	YR 50	YR 60	YR 70
CHEMICAL ANALYSIS					
Al ₂ O ₃ % min.	30	40	50	60	70
Fe ₂ O ₃ % min.	2.00	2.50	2.75	3.00	3.50
PHYSICAL PROPERTIES					
Refractoriness	30.00	31.50	32.50	34.00	35.00
Maximum Service Temperature	1300° C	1350° C	1500° C	1550° C	1600° C
Grain Size in min.	0-01	0-01	0-0.5	0-0.5	0-0.5

■ Data represents typical average Properties and don't constitute a Specification. Details of Sample Drawn in KGS/Random



RECTANGULAR BRICKS STANDARD SHAPES

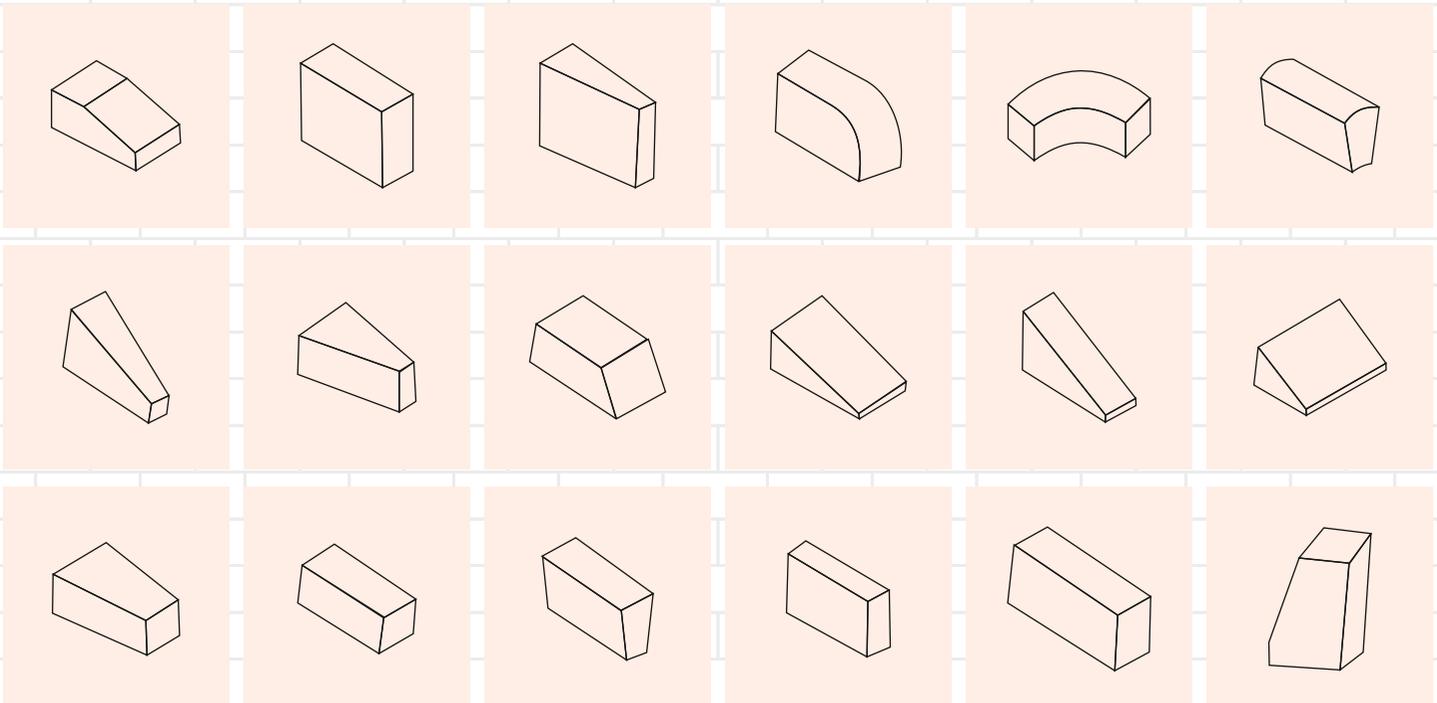


A	B	C
9"	X 4½"	X 3"
9"	X 4½"	X 2½"
9"	X 4½"	X 2"
9"	X 4½"	X 1½"
9"	X 4½"	X 1"

A	B	C
230 X	115 X	75mm
230 X	115 X	65mm
230 X	115 X	50mm
230 X	115 X	40mm
230 X	115 X	25mm

A	B	C	D
9"	X 4½"	X 3"	/ 2¾"
9"	X 4½"	X 3"	/ 2½"
9"	X 4½"	X 2"	/ 2¼"
9"	X 4½"	X 3"	/ 2"
9"	X 4½"	X 3"	/ 1¾"
9"	X 4½"	X 3"	/ 1¾"
9"	X 4½"	X 3"	/ 1¼"
9"	X 4½"	X 3"	/ 1"
9"	X 4½"	X 3"	/ ¾"

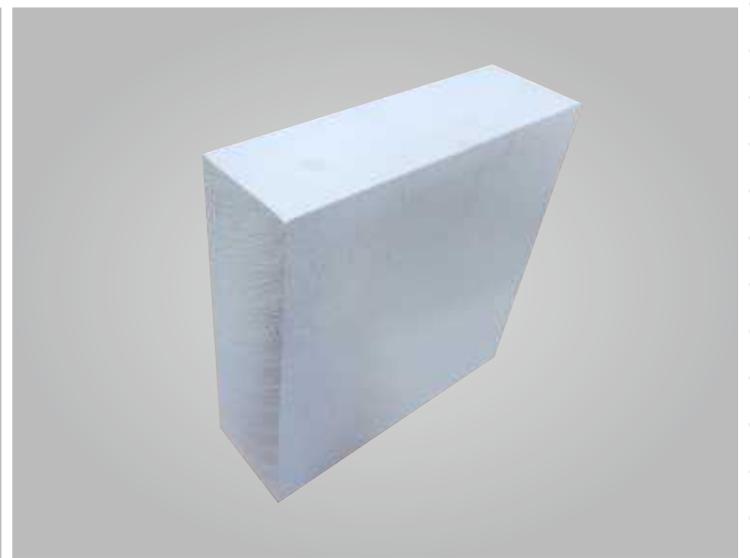
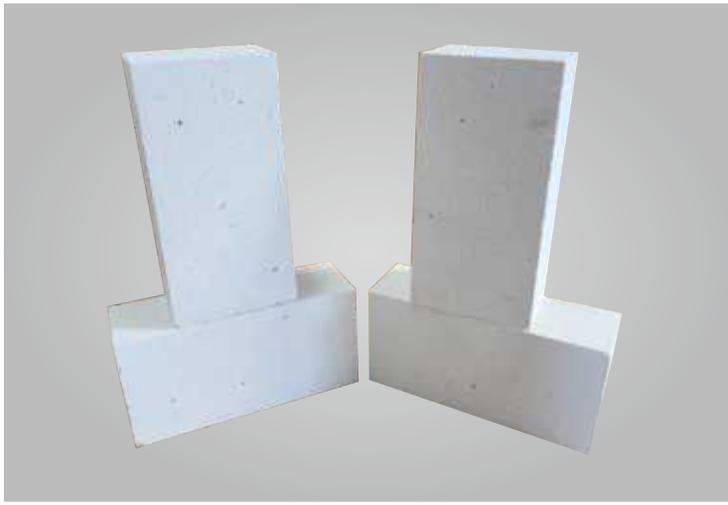
A	B	C	D
230 X	115 X	75mm /	70mm
230 X	115 X	75mm /	65mm
230 X	115 X	75mm /	55mm
230 X	115 X	75mm /	50mm
230 X	115 X	75mm /	45mm
230 X	115 X	75mm /	40mm
230 X	115 X	75mm /	30mm
230 X	115 X	75mm /	25mm
230 X	115 X	75mm /	6mm





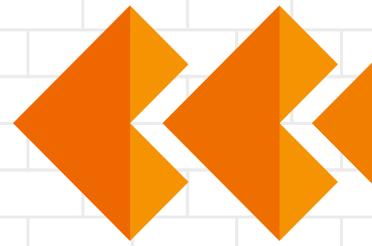












CERTIFICATE OF OUR QUALITY PRODUCT

ISO CERTIFICATE



Certificate of Registration

Certificate No. QMS/WAN/2017314112

This is to Certify that the Management System of the

Yajan Refractories

Survey No. 47/P1/P2, Opp. Hasanpar Headwork,
Jail Road, Hasanpar, At. Wankaner, Gujarat-India

*Has been independently assessed and found to be compliance
with the requirements of standard detailed below*

ISO 9001:2015

This Certificate Is Valid For The Following Scope

**“ Manufacture, Supply, Importer And Exporter Of
Refractories, Sanitaryware Product, Black Trap Stone,
Ceramic Tiles And Engineering Product ”**

Initial Registration Date	11 Dec. 2020	Issue Date	: 11 Dec. 2020
1 st Surveillance on or before	11 Dec. 2021	Valid Until	: 10 Dec. 2023
2 nd Surveillance on or before	11 Dec. 2022		






Managing Director
TQS Quality Certification Service

TQS Quality Certification Service,
B 203, Atharv Apartment, Virar Road, Nala Sopura, Mumbai 421 203.
The certificate of Registration remains the property of TQS Quality Certification Service
and shall be returned immediately upon request. for more information our website.
E : info@tqsindia.org.in, W : www.tqsindia.org.in
For current validity of this certification please visit our website.



CE MARKING



Registration No.:
TQS / CE / 20189871202

Yajan Refractories

Address:
Survey No. 47/P1/P2,
Opp. Hasanpar Headwork,
Jail Road, Hasanpar,
At. Wankaner 363621
Dist. Morbi, Gujarat-India.

Is In Compliance With The Standard |
CE MARKING
Directive 89/106/EEC & 93/68/EEC

For The Following Product :

1. Refractories Product,
2. Sanitaryware Products,
3. Black Trap Stone
3. Ceramic Tiles

TCF Number :
001/2013

The present certificate exclusively refers to the product mentioned above and certifies that the above
mentioned products have been manufactured as per the TCF deposited in TQS quality certification service.
Any changes or modification implemented on the mentioned product will not be covered by this certificate.

Initial Registration Date	10 Feb. 2021	Issue Date	: 10 Feb. 2021
1 st Surveillance on or before	10 Feb. 2022	Valid Until	: 09 Feb. 2024
2 nd Surveillance on or before	10 Feb. 2023		





Managing Director
TQS Quality Certification Service

TQS Quality Certification Service,
B 203, Atharv App, Virar Road, Nala Sopura, Mumbai 421 203.
For current validity of this certification please visit our website.
E : info@tqsindia.org.in, W : www.tqsindia.org.in
This Certificate is Only Valid When Confirmed by Data Listed Our Website
This Certificate Is Non Accreditation Bodies





Since 1952

An ISO & CE Certified Company



YR

Yajan Refractories

Manufacturer & Export of All Types of Refractories

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Our Group of Companies

