KERUI
REFRACTORY

Refractory Solutions For

High-Temperature Industries

Professional / Effective / Reliable

Iron & Steel | Non-ferrous | Glass | Cement & Lime

Zhengzhou Kerui (Group) Refractory Co., Ltd.

Contents

Serving the Global High-temperature Industry

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Welcome to Kerui

Expert of Refractory Solutions

Founded in 2004, Kerui Refractory is an international high-tech enterprise integrating R&D and innovation, manufacturing, solutions and service of high-performance refractory products.

Kerui attached great importance on R&D. In the past decades, we've obtained one invention patent certificate and more than 20 utility model patent certificates. Kerui insists on technological innovation to provide customers with better products.

KERUI main products include refractory bricks, insulating bricks, ceramic fiber products, unshaped refractory materials, etc. All the products are widely applied in high-temperature industries worldwide, such as iron-steel, aluminum, power, glass, boiler, non-ferrous, cement industry, etc., contributing to the development of global high-temperature industry.

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Kerui Production View

Serving the Global High-temperature Industry

Raw Material Workshop

It covers an area of more than 3,000 square meters. There are complete categories and sufficient reserves to ensure the supply of raw materials required for stable production.

Batching Workshop

There is a fully automatic batching system. Through coarse, medium and fine crusher screening equipment, as well as powerful mixing equipment, the computer automatically controls the batching.
Therefore, the uniformity and stability of the product is fundamentally ensured.

Forming Workshop

There are 20 sets of new CNC presses of 400-1000 tons. These machines have strong power and accurate dimensions, which can effectively improve the strength of products and ensure stable quality. Kerui adopts steel molds and special-shaped bricks can be customized in multiple sizes.

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Kerui Production View

Serving the Global High-temperature Industry

Sintering Workshop

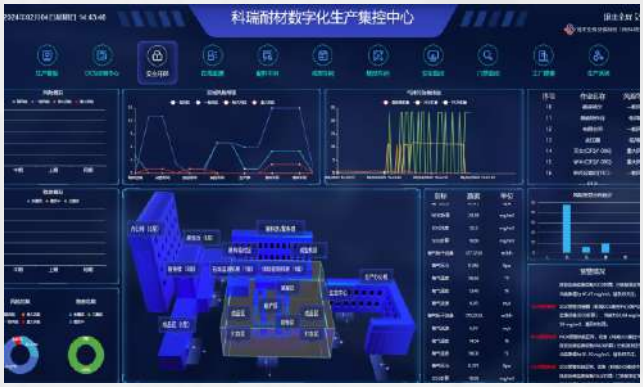
Kerui has possessed two 168 meter tunnel kilns, two high-temperature shuttle kilns, etc., which can ensure the annual production capacity of 150000t.
We also have strong customization ability. The special-shaped and customized products have met different customers' requirement and won unanimous praise from customers.

Warehousing Workshop

After the finished product passes the quality inspection, it can be stored in the warehouse after being bundled and packaged with wooden pallets, three-layer plastic film, and steel straps. Kerui has a 5,000-square-meter modern warehousing workshop. This workshop integrates warehousing, packaging and shipping.
It ensures the products to be delivered on schedule.

Digital Management

Kerui adopts a digital production centralized control center to strictly control the production process. From the selection and proportion of raw materials selection to the molding and sintering of refractory materials, Kerui has established a complete corporate product quality traceability system and production management system.



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Kerui Certificates

Qualified by Certificates

Kerui Refractory has a number of international certifications, also have many domestic certificates,the quality is very guaranteed, and they have been unanimously recognized by customers at home and abroad.

Kerui R&D Center

Always Conducts Strict Quality Control

Focus on refractory industry for 20 years, Kerui Refractory stands out because of superior refractory products. Kerui established engineering technology center and professional physical and chemical analysis laboratory to control the quality.

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Kerui Partners

All Over The World

KERUI has become the first choice of worldwide customers across 5 continents, including Asia, Europe, America, Africa, Oceania.

We serve the high-temperature industries all over the world, including iron and steel, aluminum, glass, cement, etc. We have a team of highly qualified and experienced application engineers, providing the **" TOTAL REFRACTORY SOLUTIONS "** to customers.

Refractory Bricks

Serving the Global High-temperature Industry

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High Alumina Brick

KERUI REFRACTORY

High Working Temperature

Good Thermal Stability

Strong Slag Resistance

Good Erosion and Corrosion Resistance

Application:

High alumina brick is used for lining steel-making electric furnaces, glass melting furnaces, and cement rotary furnaces.

Technical Data:

Item		LZ-80	LZ-75	LZ-70	LZ-65	LZ-60	LZ-55	LZ-48
Al_2O_3, %	≥	80	75	70	65	60	55	48
Apparent Porosity, %	≤	21	24	24	24	26	22	22
Cold Crushing Strength, MPa	≥	70	60	55	50	45	45	40
0.2MPa Refractoriness Under Load, °C	≥	1530	1520	1510	1500	1430	1450	1420
Permanent Linear Change, %		1500°C*2h -0.4~0.2		1450°C*2h -0.4~0.1				

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Fireclay Brick

KERUI REFRACTORY

High Working Temperature

Proper Thermal Stability

Proper Acid Resistance

Good Thermal Shock Resistance

Application:

Clay bricks are divided by use and are mainly divided into clay refractory bricks for blast furnaces, clay refractory bricks for hot blast furnaces, and large clay refractory bricks for coke ovens and glass kilns.

Technical Data:

Item		PN-42	PN-40	PN-35	PN-30
Al_2O_3, %	≥	42	40	35	30
Fe_2O_3, %	≤	2.0	/	/	/
Apparent Porosity, %	≤	20	24	26	23
Cold Crushing Strength, MPa	≥	45	35	30	30
0.2MPa Refractoriness Under Load, °C	≥	1400	1350	1320	1300
Permanent Linear Change, %		1400°C*2h -0.4~0.1	1350°C*2h -0.4~0.1	1300°C*2h -0.4~0.1	1300°C*2h -0.4~0.1

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Corundum Brick

KERUI REFRACTORY

High Working Temperature

Good Thermal Stability

High Cold Crushing Strength

Strong Resistance on Chemical Corrosion

Application:

Corundum brick is mainly used in iron-making blast furnaces and hot blast furnaces, steel-making furnace external refining furnaces, sliding water heaters, glass melting furnaces and petrochemical industrial furnaces.

Technical Data:

Item		GYZ-99	GYZ-90	GYZ-80
Al_2O_3, %	≥	99	90	80
SiO_2, %	≤	0.2	8	18
Fe_2O_3, %	≤	0.2	0.2	0.3
Bulk Density, g/cm^3	≥	3.2	3	2.8
Apparent Porosity, %	≤	19	18	18
Cold Crushing Strength, MPa	≥	100	100	100
0.2MPa Refractoriness Underload,°C	≥	1700	1700	1700

Mullite Brick

KERUI REFRACTORY

- High Working Temperature
- Excellent Thermal Shock Resistance
- Great Wear Resistance
- Good Erosion and Corrosion Resistance

Application:

Mullite brick is mainly used in hot blast furnace tops, blast furnace shafts and bottoms, glass melting furnace regenerators, ceramic sintering kilns, dead-end furnace linings in petroleum cracking systems, etc.

Technical Data:

Item		MLS-75	MLS-70
Al_2O_3, %	≥	75	70
SiO_2, %	≤	23	25
Fe_2O_3, %	≤	0.4	0.4
Bulk Density, g/cm^3	≥	2.7	2.6
Apparent Porosity, %	≤	18	18
Cold Crushing Strength, MPa	≥	100	100
0.2MPa Refractoriness Under Load, °C	≥	1680	1680

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Sillimanite Brick

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High Working Temperature

Good Thermal Stability

Great Wear Resistance

Excellent Thermal Shock Resistance

Application:

Sillimanite refractory materials are widely used in glass kilns, blast furnaces, ceramics, etc. in metallurgy, chemical industry, building materials and other industries.

Technical Data:

Item		GXS-65	GXS-60
Al2O3, %	≥	65	60
SiO2, %	≤	32	37
Fe2O3, %	≤	0.5	1
Bulk Density, g/cm^3	≥	2.5	2.3
Apparent Porosity, %	≤	18	19
Cold Crushing Strength, Mpa	≥	80	80
0.2MPa Refractoriness Underload,°C	≥	1650	1600

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Chrome Corundum Brick

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High Working Temperature

Good Thermal Shock Resistance

Great Wear Resistance

Good Erosion and Corrosion Resistance

Application:

Chrome corundum brick can be used as glass kiln lining, brushed glass flow hole cover brick and used in molten iron pretreatment device, garbage incinerator, coal water slurry pressurized gasification furnace backing, etc.

Technical Data:

Item/Grade		GGZ-30	GGZ-20	GGZ-12	GGZ-5
Cr_2O_2, %	≥	30	20	12	5
Fe_2O_3, %	≤	0.3	0.3	0.3	0.3
Al_2O_3, %	≥	68	76	80	85
Apparent Porosity, %	≤	18	18	18	18
Bulk Density, g/cm^3	≥	3.5	3.4	3.2	3.1
Cold Crushing Strength,MPa	≥	100	100	100	100

AZS Brick

KERUI REFRACTORY

High Working Temperature

Good Thermal Shock Resistance

Great Wear Resistance

Excellent Erosion and Corrosion Resistance

Application:

AZS brick is used as refractory materials for high temperature and erosion resistant kilns such as glass industrial pool kilns, glass electric kilns, slides in the steel industry, and kilns in the soda ash industry.

Technical Data:

Item	KR-AZS41	KR-AZS36	KR-AZS33
SiO_2, %	12	13	15
Al_2O_3, %	The Remainder	The Remainder	The Remainder
ZrO_2, %	41	36.5	33.5
$Fe_2O_3+TiO_2+CaO+MgO+Na_2O+K_2O$, %	≤2.0	≤2.0	≤2.0
Bulk Density, g/cm^3	4.05	3.9	3.8
Apparent Porosity, %	0.6	0.8	0.7
Initial Precipitation Temperature of Vitreous Phase, °C	1400	1400	1400
Vitreous Phase Exudation, % (1500°C×4h)	1.5	2.3	2.0
Anti-molten Glass Erosion Speed Under Static Condition , mm/24h (1500°C × 36h, ordinary soda lime glass)	1.2	1.3	1.4
Bubble Release Rate, % (1300°C X 10h, ordinary soda lime glass)	0.6	1.0	1.2

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Andalusite Brick

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High Working Temperature

Good Thermal Shock Resistance

Good Thermal Stability

Good Erosion and Corrosion Resistance

Application:

Andalusite bricks with excellent performance can fully meet the requirements for use in different parts of blast furnaces and hot blast stoves and in different working environments.

Technical Data:

Item		RH-155	RH-150	RH-145	RH-140	RH-135	RH-130
Al_2O_3, %	≥	69	65	61	57	53	49
Fe_2O_3, %	≤	1	1	1.2	1.2	1.5	1.5
TiO_2, %	≤	0.5	0.5	0.5	0.6	0.6	0.6
Apparent Porosity, %	≤	20	20	20	20	20	20
Bulk Density, g/cm^3		2.55~2.70	2.50~2.65	2.45~2.60	2.40~2.55	2.35~2.50	2.30~2.45
Cold Crushing Strength, MPa		55	55	50	50	40	40
0.2MPa Refractoriness Under Load, °C	≥	1700	1700	1650	1600	1520	1450
Permanent Line Change, %		1500°C×2h			1450°C×2h		

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Magnesia Brick

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High Working Temperature

Strong Resistance to Alkaline Slag

High Thermal Conductivity

High Softening Temperature Under Load

Application:

Magnesia brick is mainly used in alkaline open-hearth furnaces, electric furnace bottoms and furnace walls for steelmaking.

Technical Data:

Item		M-98	M-97A	M-97B	M-95	M-91
MgO, %	≥	97.5	97.0	96.5	95.0	91.0
SiO_2, %	≤	1.00	1.20	1.50	2.00	/
CaO, %	≤	/	/	/	2.00	3.00
Apparent Porosity, %	≤	16	16	18	16	18
Bulk Density, g/cm^3	≥	3.00	3.00		2.95	2.90
Cold Crushing Strength, MPa	≥	60	60		60	60
0.2MPa Refractoriness Under Load, °C	≥	1700	1700		1650	1560
Permanent Linear Change, %		1650℃*2h -0.2-0	1650℃*2h -0.2-0		1600℃*2h -0.3-0	1600℃*2h -0.5-0

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Magnesia Chrome Brick

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High Working Temperature

High Temperature Strength

Strong Resistance to Alkaline Slag Corrosionto Alkali Erosion

Excellent Thermal Stability

Application:

Magnesia chrome brick is mainly used in the metallurgical industry, such as constructing open-hearth furnace tops, electric furnace tops, external refining furnaces and various alkali-resistant non-ferrous metal smelting furnaces.

Technical Data:

Item		MGe-16A	MGe-16B	MGe-12A	MGe-12B	MGe-8A	MGe-8B
MgO ,%	≥	50	45	60	55	65	60
Cr_2O_3 ,%	≥	16	16	12	12	8	8
Apparent Porosity ,%	≤	19	22	19	21	19	21
Cold Crushing Strength, MPa	≥	35	25	35	30	35	30
0.2MPa Refractoriness Under Load,°C	≥	1650	1550	1650	1550	1650	1530

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Magnesia Carbon Brick

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- High Working Temperature
- Good Thermal Shock Resistance
- Strong Slag Resistance
- Low Creep Rate in High Temperature

Application:

Magnesia carbon bricks are mainly used in the lining of converters, AC electric arc furnaces, DC electric arc furnaces, and slag lines of ladles in the steelmaking industry.

Technical Data:

Item		MT-8A	MT-8B	MT-10A	MT-10B	MT-12A	MT-12B	MT-14A	MT-14B	MT-16A	MT-16B	MT-18A	MT-18B
MgO, %	≥	82	81	80	79	78	77	76	74	74	72	72	70
C, %	≥	8	8	10	10	12	12	14	14	16	16	18	18
Apparent Porosity, %	≤	4.5	5.0	4.0	4.5	4.0	4.0	3.5	3.5	3.5	3.5	3.0	3.5
Bulk Density, g/cm^3	≥	3.05	3.00	3.02	2.97	2.97	2.94	2.95	2.90	2.92	2.87	2.89	2.84
Cold Crushing Strength, MPa	≥	45	45	40	40	40	35	38	35	35	35	35	30

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Magnesia Alumina Spinel Brick

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- Good Thermal Stability
- Strong Resistance to Erosion
- Lower Thermal Conductivity
- Good Resistance to Peeling

Applications:

Mainly used in non-ferrous metal smelting furnaces, such as steel nickel furnaces and aluminum smelting furnace linings, electric furnace covers, steel drum linings, steel refining vacuum treatment equipment linings, high-temperature belt linings in cement calcination kilns, steel storage chambers in open hearth furnaces, and lattice bricks in glass furnace heating chambers.

Technical Data:

Item		Index
MgO ,%	≥	80
Al_2O_3 ,%	≥	10
Apparent Porosity ,%	≤	17
Bulk Density ,g/cm^3	≥	2.9
Cold Crushing Strength ,Mpa	≥	50
High-temperature Bending Strength (1350°C*0.5h), MPa	≥	3.5
Thermal Shock Resistances (1100°C , Water Cooling), Cycle	≥	12

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Magnesia Iron Spinel Brick

KERUI REFRACTORY

- High Working Temperature
- Good Thermal Shock Resistance
- High Compressive Strengthd
- Strong Resistance to Erosion and Permeability

Application:

Magnesia iron spinel brick is an ideal chromium free alkaline refractory material for cement rotary kiln firing.

Technical Data:

Item		MFe-85A	MFe-85B
MgO ,%	≥	85	85
Al_2O_3 ,%	≥	3-5	3-5
Fe_2O_3 ,%	≥	4-6	4-6
Bulk Density ,g/cm^3	≥	2.95	2.90
Cold Crushing Strength ,Mpa	≥	55	50
0.2MPa Refractoriness Under Load,°C	≥	1650	1600

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Silica Brick

KERUI REFRACTORY

High Working Temperature

Good Thermal Stability

Good Resistance to Acid Slag Corrosion

High Refractoriness Under Load

Application:

Silica brick is mainly used as structural materials for coke ovens, glass furnaces, acid steelmaking furnaces and other thermal equipment.

Technical Data:

Item/Grade		GZ-94	GZ-95	GZ-96
SiO_2, %	≥	94	95	96
Fe_2O_3, %	≤	1.4	1.2	1.0
Apparent Porosity, %	≤	22	22	22
Bulk Density, g/cm^3	≤	2.35	2.35	2.34
Cold Crushing Strength, MPa	≥	30	35	40
0.2MPa Refractoriness Under Load, °C	≥	1650	1660	1670

Silicon Carbide Brick

KERUI REFRACTORY

- Good Thermal Shock Stability
- High Working Temperature
- Great Wear Resistance
- Low Thermal Expansion Coefficient

Application:

Silicon carbide brick is mainly used for making non-ferrous metallurgical retorts, aluminum casting molds, electric furnace linings, aluminum electrolytic cell linings, ceramic kiln furniture and heat exchangers, etc.

Technical Data:

Item/Grade		Index
SiC, %	≥	85
Fe_2O_3, %	≤	0.5
Apparent Porosity, %	≤	16
0.2MPa Refractoriness Under Load, °C	≥	1750
Bulk Density, g/cm^3	≥	2.6
Cold Crushing Strength, MPa	≥	80
Modulus of Rupture, MPa	≥	40

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Chromic Oxide Brick

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High Working Temperature

Good Thermal Shock Resistance

Great Wear Resistance

Good Corrosion Resistance

Application:

High chromium bricks are mainly used for lining and reinforcement of different blast furnaces, kilns, electric furnaces, boilers, etc. in the metallurgical industry, cement industry, chemical industry, non-ferrous metal and glass industries.

Technical Data:

Item		GGZ-75	GGZ-85	GGZ-90	GGZ-95
Cr_2O_3, %	≥	75	85	90	95
$Cr_2O_3+Al_2O_3+ZrO_2$, %	≥	98	98	98	98
SiO_2, %	≤	0.2	0.2	0.2	0.2
Fe_2O_3, %	≥	0.3	0.3	0.3	0.3
K_2O+Na_2O, %	≥	0.2	0.2	0.2	0.2
Bulk Density, g/cm^3	≥	3.9	4.2	4.22	4.25
Apparent Porosity, %	≤	18	18	16	16
Cold Crushing Strength, MPa	≥	120	120	120	120

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Alumina Silicon Carbide Brick

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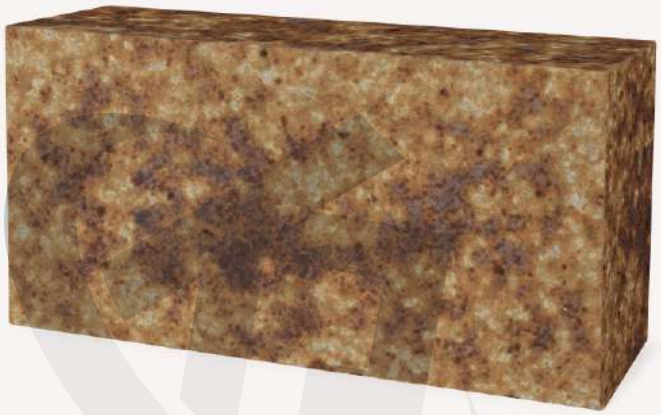

High Working Temperature

Good Thermal Shock Resistance

Great Wear Resistance

High Temperature Compressive Strength

Application:

Alumina silicon carbide brick can be used as the supporting material for the lining of wire quenching heating furnace and the corundum silicon carbide slide rail brick for steel rolling heating furnace. It can also be used as kiln furniture for ceramic firing.

Technical Data:

Item		Gm1650	Gm1600	Gm1550
Al_2O_3, %	≥	65	63	60
Bulk Density, g/cm^3	≥	2.65	2.60	2.55
Apparent Porosity, %	≤	17	17	19
Cold Crushing Strength, MPa	≥	85	90	90
0.2MPa Refractoriness Under Load , °C	≥	1650	1600	1550
Thermal Shock Resistances (1100°C, Water Cooling), Cycle	≥	10	10	12
Resistance to Abrasion at Ambient Temperature, cm^3	≤	5	5	5

Silicon Nitride Bonded Silicon Carbide Brick

KERUI REFRACTORY

High Working Temperature

Good Thermal Shock Resistance

Great Wear Resistance

Good Alkali Corrosion Resistance

Application:

Silicon nitride bonded silicon carbide brick is mainly used as the lining of the lower furnace body of the blast furnace, the lining of the aluminum reduction electrolytic cell, ceramic kiln furniture, and the blast furnace tuyere water cooling pipe sleeve.

Technical Data:

Item		Index
SiC, %	≥	72
SI_3N_4, %	≥	21
Fe_2O_3, %	≤	0.5
Apparent Porosity, %	≤	18
Bulk Density, g/cm^3	≥	2.65
Cold Crushing Strength, MPa	≥	150
Modulus of Rupture, MPa	≥	40

Refractory Balls

KERUI REFRACTORY

High Fire Resistance

Customized Production Available

Great Wear Resistance

Good Alkali Corrosion Resistance

Application:

According to the material, there are high alumina refractory balls, corundum refractory balls, silica refractory balls, magnesium refractory balls, mullite refractory balls, etc. Refractory balls can be used in high temperature conversion furnaces, conversion furnaces, hot air furnaces of fertilizer plants, etc.

Technical Data:

Item	High Alumina	Low Creep	Mullite	Corundum
Al_2O_3, %	65	70	75	95
Refractoriness under load, °C	1450	1460	1530	1650
Apparent Porosity, %	25	23	22	18
Bulk Density, g/cm^3	2.3	2.4	2.5	3.1
Cold crushing strength, Mpa	13	14	32	36
Thermal shock resistance (1100°C water cooling), cycle ≥	≥15	≥10	≥20	≥7
Refractoriness, °C	1710	1750	1800	1800

Insulation Brick

Serving the Global High-temperature Industry

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High Alumina Insulation Brick

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Low Volume Density

Lower Thermal Conductivity

Excellent Heat Insulation

Significant Energy Saving Effect

Application:

Used in insulation layer of industrial kilns like ceramic tunnel kilns, roller kilns, shuttle kilns, wall kilns, as well as other locations without strong erosion of high-temperature molten materials.

Technical Data:

Item/Grade		Lg140 -1.2	Lg140 -1.0	Lg140 -0.8L
Al_2O_3, %	≥	48		
Fe_2O_3, %	≤	2.0		
Bulk Density, g/cm^3	≤	1.2	1	0.8
Cold Crushing Strength, MPa	≥	4.5	3.5	2.5
Permanent Linear Change, % (T/°C*12h)	Test Temperature T/°C	1400		
Thermal Conductivity Coefficient , W/(m·K) Average Temperature (350±25°C)	≤	0.55	0.50	0.35

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Fire Clay Insulation Brick

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Lower Thermal Conductivity

High Porosity, Low Volume Density

Good Thermal Shock Resistance

Good Heat Insulating Effect

Application:

Widely used as the insulation layer of thermal equipment such as ignition kilns, flues, refining devices, heating devices, gas furnaces and pipelines, soaking furnaces, annealing furnaces, reaction chambers, etc.

Technical Data:

Item/Grade		NG135 -1.3	NG135 -1.2	NG130 -1.0	NG125 -0.8	NG120 -0.6
Bulk Density, g/cm^3	≥	1.3	1.2	1.0	0.8	0.6
Cold Crushing Strength, MPa	≤	5	4.5	3.5	2.5	1.3
	/	4.5	4.0	3.0	2.0	1.0
Permanent Linear Change, %	Experimental Conditions	1350°C*12h		1300°C* 12h	1250°C* 12h	1200°C* 12h
	Xmin~Xmax	-2-1				
Thermal Conductivity Coefficient , W/(m·K) ≤ Average Temperature (350±25°C)	≤	0.55	0.50	0.40	0.35	0.25

Mullite Insulation Brick

KERUI REFRACTORY

- Lightweight and High Strength
- Good Thermal Insulation Effect
- Accurate and Customized Dimension
- Lower Thermal Conductivity
- Good Thermal Shock Resistance

Application:

Suitable for the refractory lining and backing insulation layer of pyrolysis furnaces, hot blast furnaces, ceramic roller kilns, electric porcelain drawer kilns and various industrial resistance furnaces.

Technical Data:

Item/Grade		KR-23			
Type		A	B	C	D
Al_2O_3, %	≥	42	42	45	48
Fe_2O_3, %	≤	1.2	1.2	1	1
Bulk Density, g/cm^3		0.55	0.6	0.8	1.0
Reheating Linear Change, %	≤	-0.5	-0.55	-0.4	-0.3
		1230°C x12h	1260°C x12h	1300°C x12h	1300°C x12h
Cold Compression Strength, MPa	≥	1.2	1.5	2.3	3
Thermal conductivity 350 °C , W/(m·K)		0.17	0.19	0.24	0.31

Mullite Insulation Brick

KERUI REFRACTORY

Item/Grade		KR-26			
Type		A	B	C	D
Al_2O_3, %	≥	54	55	56	56
Fe_2O_3, %	≤	0.9	0.9	1	1
Bulk Density, g/cm³		0.7	0.8	0.9	1.0
Reheating Linear Change, %	≤	-1	-0.65	-0.5	-0.5
		1400°C x12h			
Cold Compression Strength, MPa	≥	2	2.3	2.8	3.2
Thermal conductivity 350 °C , W/(m·K)		0.21	0.25	0.3	0.32

Item/Grade		KR-28			KR-30	
Type		A	B	C	A	B
Al_2O_3, %	≥	64	65	66	72	72
Fe_2O_3, %	≤	0.75	0.65	0.65	0.55	0.55
Bulk Density, g/cm³		0.8	0.9	1.0	1.0	1.1
Reheating Linear Change, %	≤	-1	-0.8	-0.7	-0.9	-0.7
		1500°C x12h			1600°C x12h	
Cold Compression Strength, MPa	≥	2.3	2.8	3.3	3.0	3.5
Thermal conductivity 350 °C , W/(m·K)		0.28	0.32	0.34	0.4	0.43

Alumina Bubble Brick

KERUI REFRACTORY

- High Crushing Strength
- High Working Temperature
- Good Thermal Shock Resistance
- Good Thermal Stability
- Lightweight and Energy-saving
- Lower Thermal Conductivity

Application:

Commonly used as the working layer and heat insulation layer of high temperature kilns in petrochemical industry gasifiers, carbon black reactors, metallurgical induction furnaces and other industries.

Technical Data:

Item/Grade		85	90	99
Max Service Temperature, °C		1680	1700	1800
Al_2O_3, %	≥	85	90	99
SiO_2, %	≤	13	8	0.2
Fe_2O_3, %	≤	0.2	0.2	0.2
Bulk Density, g/cm³		1.4-1.7	1.4-1.7	1.4-1.7
Cold Crushing Strength, Mpa	≥	12	10	9
Refractoriness Under Load(0.1MPa.0.6%), °C	≥	1650	1700	1700
Reheating Linear Change(1600°Cx3h), %		±0.3	±0.3	±0.3
Thermal Expansion Coefficient (Room temp-1300°C)		~7.8	~8.0	~8.6
Thermal Conductivity Coefficient (1800°C), W/(m·K)	≤	0.8	1.3	1.5

Silica Insulation Brick

KERUI REFRACTORY

- Great Thermal Mechanical Strength
- Strong Acid Slag Erosion Resistance
- Good Thermal Stability
- Lower Thermal Conductivity
- Lightweight and Energy-saving

Application:

Commonly used in coke oven insulation layers, glass kiln vaults, hot blast furnace walls and domes. It does not directly contact high-temperature molten materials and alkaline gas working layers.

Technical Data:

Item/Grade		GGR-1.00	GGR-1.10	GGR-1.15	GGR-1.20
SiO_2, %	≥	91	91	91	91
Bulk Density, g/cm^3	≥	1.00	1.10	1.15	1.20
Cold Crushing Strength, MPa	≥	2.0	3.0	5.0	5.0
Permanent Linear Change On Reheating, °C	≤	/	/	0.5	0.5
0.1MPa Refractoriness Underload, °C	⩾1500°C, 2h	0.5	0.5	/	/
	⩾1450°C, 2h	1400	1420	1500	1520
Thermal Conductivity Coefficient , W/(m·K) Average Temperature (350±10°C)	≤	0.55	0.60	0.65	0.70

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Monolithic Refractory

Serving the Global High-temperature Industry

KERUI REFRACTORY

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Calcium Aluminate Cement

KERUI REFRACTORY

High Heat Resistance

Environmentally Friendly

Rapid Hardening

Easy Construction

Application:

In high temperature industries, refractory cement for sale is an important and popular product. Because it has wide applications in manufacturing monolithic refractory products and directly using in kilns.

CA-50 series Technical Data:

Item			A600	A700	A900
SiO_2, %		≤	7.8	7.5	5.5
Al_2O_3, %		≥	50.0	51.0	53.5
Fe_2O_3, %		≤	2.5	2.5	2.5
R_2O, %		≤	0.4	0.4	0.4
S, %		≤	0.1	0.1	0.1
Cl, %		≤	0.1	0.1	0.1
325M Residue on Sieve, %		≤	15	12	8
S, m^2/kg		≥	300	320	350
Initial Setting Time, min		≥	45	60	90
Final Setting Time, h		≤	6	6	6
Flexural Strength, Mpa	1d	≥	6.0	6.5	8.0
	3d	≥	7.0	7.5	10.0
Compressive Strength, Mpa	1d	≥	45	55	72
	3d	≥	55	65	82

Calcium Aluminate Cement

KERUI REFRACTORY

CA-70 Technical Data:

Item		CA70
Properties Determined according to GB201-2000		
SiO_2, %		≤0.5
Al_2O_3, %		68.5-70.5
Fe_2O_3, %		≤0.2
CaO, %		28.5-30.5
MgO, %		≤0.4
R_2O, %		≤0.4
Fineness	D50, μm	11-14
	-45μm, %	≤8.0
Setting Time, min	Initial Setting, IS	120-180
	Final Setting, FS	150-240
Flexural Strength, Mpa	1d	7.5-10.0
	3d	10.0-12.0
Compressive Strength, Mpa	1d	40-50
	3d	45-55
Cement Properties in Testing Castables		
Setting Time, min	20℃	60-90
	35℃	30-50
Vibration Flow, mm (20℃)	Initial Flow	265-275
	10min	255-265
	30min	235-245
	60min	230-240
Flexual Strength, Mpa	20℃×24h	4.5-5.5
	110℃×24h	10.0-11.5
	1100℃×4h	12.0-14.0
Compressive Strength, Mpa	20℃×24h	35-45
	110℃×24h	85-95
	1100℃×4h	100-120
Linear Change, %	1100℃×4h	≤-0.25

CA-80 Technical Data:

Item		CA80
Properties Determined according to GB201-2000		
SiO_2, %		≤0.5
Al_2O_3, %		78.0-81.0
Fe_2O_3, %		≤0.2
CaO, %		17.5-20.5
MgO, %		≤0.4
R_2O, %		≤0.4
Fineness	D50, μm	5-8
	-45μm, %	≤5.0
Setting Time, min	Initial Setting, IS	30-90
	Final Setting, FS	90-180
Flexural Strength, Mpa	1d	5.0-7.5
	3d	6.0-8.5
Compressive Strength, Mpa	1d	30-40
	3d	40-50
Cement Properties in Testing Castables		
Setting Time, min	20℃	90-120
	35℃	40-60
Vibration Flow, mm (20℃)	Initial Flow	255-265
	10min	250-260
	30min	240-250
	60min	235-245
Flexual Strength, Mpa	20℃×24h	3.0-4.0
	110℃×24h	8.0-9.0
	1100℃×4h	11.0-13.0
Compressive Strength, Mpa	20℃×24h	25-35
	110℃×24h	60-70
	1100℃×4h	100-120
Linear Change, %	1100℃×4h	≤-0.15

High Alumina Castable

KERUI REFRACTORY

High-Temperature Resistance

Impact Resistance

Excellent Chemical Resistance

Great Wear Resistance

Application:

The appearance of high alumina refractory castables is powdery and sandy, which belongs to unshaped refractory materials. It is made of high-alumina raw materials as aggregate, powder, and binder to form a uniform mixture that can be easily molded and installed in various high-temperature applications.

Technical Data:

Item		G-15B	G-15	G-16
Maximum service temperature, °C		1400	1500	1600
Al_2O_3, %		≥65	≥75	≥78
SiO_2, %		25	20	15
B.D After Drying at 110°C, g/cm^3		2.50	2.60	2.65
Cold Bending Strength, Mpa	110°C, X24h	8	8	10
	1100°C, X3h	8	8	10
Cold Compressive Strength, Mpa	110°C, X24h	70	80	100
	1100°C, X3h	70	80	100
Linear Change Rate After Burning PLC, %	1100°C, X3h	±0. 3	±0. 3	±0. 3
Construction Reference Water Consumption, %		6-7	6-7	5.5-6.5

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Corundum Castable

KERUI REFRACTORY

Corrosion Resistance

High-Pressure Strength

Good Volume Stability

Excellent Mechanical Strength

Application:

Corundum refractory castable is an unshaped refractory material formed by mixing corundum and super bauxite clinker as aggregate and powder, plus some pure calcium aluminate cement, as well as binders and additives.

Technical Data:

Item		G-17	G-18S	G-18
Maximum service temperature, °C		1650	1650	1700
Al_2O_3, %		≥85	≥90	≥93
SiO_2, %		8	4	2
B.D After Drying at 110°C, g/cm³		2.90	3.00	3.00
Cold Bending Strength, Mpa	110°C, X24h	9	12	14
Cold Compressive Strength, Mpa	110°C, X24h	80	90	100
Linear Change Rate After Burning PLC, %	1100°C, X3h	±0. 3	±0. 3	±0. 2
	1500°C, X3h	±0. 6	±0. 6	±0. 5
Construction Reference Water Consumption, %		4.5-5.5	5-6	5.5-6.5

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Mullite Castable

KERUI REFRACTORY

- Low Thermal Expansion
- Environmentally Friendly
- Short Bake Time, No cracking
- Good Wear Resistance

Application:

Mullite refractory castable is an unshaped refractory material composed of porous mullite aggregate, binder, and various additives. Mullite is a high-quality refractory raw material, and this type of mineral is relatively rare.

Technical Data:

Item		ML-70	ML-80	ML-90
Maximum service temperature, °C		1600	1600	1750
Al2O3+SiO2, %		≥70	≥80	≥90
B.D After Drying at 110°C, g/cm³		2.70	2.80	2.90
Cold Bending Strength, Mpa	110°C, X24h	10	12	15
Cold Compressive Strength, Mpa	110°C, X24h	100	100	150
Linear Change Rate After Burning PLC, %	1100°C, X3h	±0. 3	±0. 3	±0. 3
	1500°C, X3h	±0. 5	±0. 5	±0. 5
Construction Reference Water Consumption, %		4.5-5	4.5-5	4.5-5

Silicon Carbide Castable

KERUI REFRACTORY

High-Temperature Resistance

Good resistance to erosion

Abrasiveness resistance

High strength

Application:

Silicon Carbide Castable are made from high-grade silicon carbide and industrial silicon powder as raw materials. Which is one of the unshaped refractory materials. It is one of the new type refractory material of don't need calcination.

Technical Data:

Item		CG-13	CG-13H	CG-17
Maximum service temperature, °C		1300	1400	1600
Al2O3, %		≤35	≤25	75
SiC, %		≥30 SiC	≥50 SiC	/
B.D After Drying at 110°C, g/cm^3		2.40	2.50	2.70
Cold Bending Strength, Mpa	110°C, X24h	9	8	10
	1100°C, X3h	9	9	11
Cold Compressive Strength, Mpa	110°C, X24h	80	70	100
	1100°C, X3h	80	80	110
Linear Change Rate After Burning PLC, %	1100°C, X3h	±0.3	±0.4	±0.4
Construction Reference Water Consumption, %		6-7	6-7	5-6

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Wear-resistant Castable

KERUI REFRACTORY

Good thermal shock resistance.

Excellent corrosion resistance.

High-Pressure Strength

Good volume stability.

Application:

Wear resistant castable is a kind of refractory castable that has a high wear resistance and a high abrasion resistance. This product is made of calcium aluminate cement and refractory powder with a high alumina content or other hard materials as the main component.

Technical Data:

Item		GQ-75	GQ-85	GQ-90
Al2O3, %		75	85	90
B.D After Drying at 110°C, g/cm^3		2.75	2.90	3.00
Cold Bending Strength, Mpa	110°C, X24h	11	15	15
	1100°C, X3h	12	16	17
Cold Compressive Strength, Mpa	110°C, X24h	120	140	150
	1100°C, X3h	120	120	120
Linear Change Rate After Burning PLC, %	1100°C, X3h	±0.4	±0. 3	±0. 2
Construction Reference Water Consumption, %		5.5-6.5	4.5-6.5	4.5-6.5

Lightweight Insulating Castable

KERUI REFRACTORY

Lightweight easier to handle

Low Thermal Expansion

Good Thermal Shock Resistance

Application:

Lightweight thermal insulation castables are composed of refractory lightweight aggregate and powder, as well as binders, additives, etc. s

Technical Data:

Item		QG-1.0	QG-0.8	QG-0.6
Maximum service temperature, ℃		1250	1200	1150
Al2O3, %		43	40	36
SiO2, %		36	37	30
Bulk Density, g/cm^3		1.0	0.8	0.5
Thermal Conductivity Coefficient , W/(m·K)	350℃	≤0.3	≤0.25	≤0.15
	700℃	≤0.4	≤0.30	≤0.20
Cold Crushing Strength, MPa	110℃*24h	≥4.0	≥2.0	≥1.5
	1000℃*3h	≥5.5	≥2.0	≥1.5
Permanent Linear Change (1000℃*3h)/%		-1.0	-1.0	-1.5

Ceramic Fiber Products

Serving the Global High-temperature Industry

KERUI REFRACTORY

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Ceramic Fiber Blanket

KERUI REFRACTORY

- High-Temperature Stability
- Excellent Thermal Insulation Properties
- Free of Binders and Corrosive Substances
- Excellent Sound Absorption

Application:

The ceramic fiber blanket is white in color, regular in size, integrated with heat insulation, and heat preservation functions, and does not contain any additives.

Technical Data:

Item	Common Type	Standard Type	High Purity Type	High Alumina Type	Zirconium Containing Type
Classification Temperature, °C	1050	1260	1260	1350	1430
Service Temperature, °C	<1000	1050	1100	1200	1350
Bulk & Density, kg/m^3	96-128	96-128	96-128	128-160	128-160
Permanent Liner Change, %	-4(1000°C)	-3(1000°C)	-3(1100°C)	-3(1250°C)	-3(1350°C)
Thermal Conductivity Under Each Section, W/(m·k) (Bulk density 128kg/m^3)	0.09 (400°C) 0.176 (800°C)	0.09 (400°C) 0.176 (800°C)	0.09 (400°C) 0.176 (800°C) 0.22 (1000°C)	0.132 (600°C) 0.22 (1000°C)	0.76 (800°C) 0.20 (1000°C)
Strength of Extension, Mpa	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12
Al_2O_3, %	44	46	47-49	52-55	39-40
$Al_2O_3+SiO_2$, %	96	97	99	99	-
$Al_2O_3+SiO_2+ZrO_2$, %	-	-	-	-	99
ZrO_2, %	-	-	-	-	15~17
Fe_2O_3, %	<1.2	<1.0	0.2	0.2	0.2
Na_2O+K_2O, %	≤0.5	≤0.5	0.2	0.2	0.2
Size, mm	Standard Size:7200*610*6-60, Customized Sizes				

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Ceramic Fiber Board

KERUI REFRACTORY

Lightweight High Strength.

High Compressive Strength

Evenly Heated

Good Toughness

Application:

Ceramic fiber board is a kind of refractory material, usually composed of alumina and silicate, and it is also called an aluminum silicate board.

Technical Data:

Item	Ordinary Type	Standard Type	High Purity Type	High Alumina Type	Zirconium Containing Type
Classification Temperature, °C	1100	1260	1260	1360	1430
Working Temperature, °C	<1000	1050	1100	1200	1350
Bulk & Density, kg/m^3	260-320	260-320	260-320	260-320	260-320
Permanent Liner Change, %	-4(1000°C)	-3(1000°C)	-3(1000°C)	-3(1250°C)	-3(1350°C)
Heat Conductivity Coefficient, W/(m·k) (Bulk density 128kg/m^3)		0.09 (400°C),	0.176 (800°C),	0.22 (1000°C)	
Strength of Extension, Mpa	0.5	0.5	0.5	0.5	0.5
Al_2O_3, %	44	46	46~49	52-55	39-40
$Al_2O_3+SiO_2$, %	96	97	99	99	-
$Al_2O_3+SiO_2+ZrO_2$, %	-	-	-	-	99
ZrO_2, %	-	-	-	-	15~17
Fe_2O_3, %	<1.2	<1.0	0.2	0.2	0.2
Na_2O+K_2O, %	≤0.5	≤0.5	0.2	0.2	0.2
Size, mm	Length, Width Regular Size, Thickness 3-100mm, Customized Size				

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Ceramic Fiber Cloth

KERUI REFRACTORY

Metal Erosion Ability

Non-Toxic, Harmless, And Odorless

Electrical Insulation Properties

Acid and Alkali Corrosion Resistance

Application:

Ceramic fiber cloth is a woven fabric made of ceramic fiber yarn. The main raw materials include alumina, silicate or borate, etc. It has excellent heat resistance and chemical stability.

Technical Data:

Item	Ceramic Fiber Cloth		Ceramic Fiber Tape	
Physical Property	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel
Bulk Density, kg/m^3	500		500	
Size, mm	30000 x 1000 x 2/3		30000 x 50/75 x 2/3	
Moisture Content, %	≤2		≤2	
Continuous Temperature Use Limit, °C	650	1050	600	1050
Organic Content, %	≤15		≤15	

Ceramic Fiber Paper

KERUI REFRACTORY

Thermal Shock Resistance

High-Temperature Resistance

Electrical Insulation

Environmental Friendly

Application:

Ceramic fiber paper is a paper refractory product made of ceramic fibers, also called aluminum silicate fiber paper. Ceramic fiber paper is a high-temperature refractory material, usually made of inorganic oxide fibers,

Technical Data:

Item		STD Paper	HD Paper
Classification Temperature, °C		1260	1350
Al_2O_3, %		42-47	44-50
SiO_2, %		52-57	49-55
Color		White	White
Bulk Density, kg/m^3		200	240
Tensile Strength, MPa		0.4	0.7
Loss of Lgnition , %		≤10	≤6
Thermal Conductivity Coefficient, W/(m·K)	200°C	0.06	0.06
	400°C	0.09	0.08
	600°C	0.13	0.13
	800°C	0.20	0.19
	1000°C	/	0.29
	1200°C	/	0.43

Ceramic Fiber Cotton

KERUI REFRACTORY

Good Thermal Shock Resistance

Environmentally Friendly

Low Thermal Conductivity

Good Chemical Stability

Application:

Ceramic fiber cotton is made of high-purity silicon and aluminum raw materials using spinning or blowing processes. In addition, in the vacuum forming process, ceramic bulk fiber is the basis for ceramic fiber blankets, boards, papers and other products.

Technical Data:

Item	STD BULK			HP BULK	HA BULK	HZ BULK
	Spun	Blown	Chopped			
Classification Temperature, °C	1260	1260	1260	1260	1350	1430
Al_2O_3, %	≥43	≥43	≥43	≥44	≥52	≥35
SiO_2, %	≥54	≥54	≥54	≥55	≥47	≥49
ZrO_2, %	-					≥15
Color	White					
Shot Content, %	≤15	≤15	≤12	≤15	≤15	≤12
Fiber Diameter, μm	3-5	2-4	2-4	3-5	2-4	3-5

Ceramic Fiber Rope

KERUI REFRACTORY

High-Temperature Stability

Chemical Resistance

Efficient Insulation

Sound Insulation

Application:

Ceramic fiber rope is made of ceramic fiber spun yarn and is often used as heat insulation material. It is an excellent substitute for asbestos rope. Ceramic fiber rope can be divided into twisted rope, square rope, and round rope.

Technical Data:

Item	Round Braided Rope		Square Braided Rope		Twisted Rope		Woolen Rope
Reinforcementr	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel	Glass Fiber	Stainless Steel	Glass Fiber
Continuous Temperature Use Limit, °C	650	1000	650	1000	650	1000	650
Color	White		White		White		White
Bulk Density, kg/m^3	500		500		300		380
Organic Content, /%	15		15		≤15		≤15

Ceramic Fiber Module

KERUI REFRACTORY

Low Thermal Conductivity

Shock Resistance

Great Wear Resistance

Easy Installation

Application:

Ceramic fiber module uses advanced ceramic fiber technology to optimize the fiber fineness and structure to provide excellent thermal insulation performance and durability. It is made of ceramic fiber blankets that are folded or stacked and pressed into rectangular modules and employs non-exposed anchorage for economical installation and mechanical linkage.

Technical Data:

Item		STD Module	HP Module	HA Module	HZ Module
Classification Temperature, °C		1260	1260	1350	1430
Al2O3, %		≥43	≥44	≥52	≥35
SiO2, %		≥54	≥55	≥47	≥49
ZrO2, %		-	-	-	≥15
Color		White	White	White	White
Bulk Density, kg/m^3		160-220	160-220	160-220	160-220
Permanent Linear Change, %		1000°C*24h ≤2.5	1100°C*24h ≤2.5	1200°C*24h ≤2.5	1350°C*24h ≤2.5
Chemical Composition	400°C	0.10	0.10	0.10	0.10
	600°C	0.18	0.17	0.16	0.15
	800°C	0.20	0.20	0.20	0.19
	1000°C	0.27	0.26	0.26	0.26

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Alumina Ceramic

KERUI REFRACTORY

High temperature up to 1800°C

Resistant to sudden cold and hot

High chemical etching resistance.

Various kinds of shape

Application:

Alumina ceramics are ceramic materials based on alumina (Al_2O_3) for thick film integrated circuits. Alumina ceramics have good conductivity, mechanical strength and high temperature resistance.

Technical Data:

Item	Alumina				
Index	AL997	AL995	AL99	AL95	AL60
Main Ingredient Content	99.70%	99.5%	99.0%	95%	60%
Air Tightness	Airtight	Airtight	Airtight	Airtight	Airtight
Bulk Density, kg/m^3	3.94	3.9	3.8	3.75	3
Hardness	9	9	9	8.8	7.5
Water Absorption	≤0.2	≤0.2	≤0.2	≤0.2	≤0.2
Flexural Strength, 20°C	375	370	340	304	205
Compressive Strength, 20°C	2300	2300	2210	1910	1820
Thermal Expansion Coefficient, 25°C-800°C	7.6	7.6	7.6	7.6	7.1
Dielectric Strength, 5mm	10	10	10	10	9
Dielectric Loss, 25°C @MHZ	<0.0001	<0.0001	0.0006	0.0004	0.0007
Permittivity, 25°C @MHZ	9.8	9.7	9.5	9.2	8.6
Volume Resistivity, 20°C	>10^{14} 2*10^{12}	>10^{14} 2*10^{12}	>10^{14} 4*10^{11}	>10^{14} 2*10^{11}	>10^{14} >10^{13}
Long-term Use Temperature, °C	1700	1650	1600	1400	1100
Thermal Conductivity 25°C, W/(m·K)	35	35	34	20	16

Alumina Ceramic

KERUI REFRACTORY

Item	MgO	Mullite	ZrO_2	Si_3N_4
Main Ingredient Content	-	-	-	<92%
Air Tightness	Airtight	Airtight	Airtight	Airtight
Bulk Density, kg/m^3	3.58	2.6	6.01	3.1
Hardness	6	8	8.5	9.4
Water Absorption	0	0	0	0
Flexural Strength, 20°C	140	120	1200	150
Compressive Strength, 20°C	550	500	5700	490
Thermal Expansion Coefficient, 25°C-800°C	13	5.6	10	2.9
Dielectric Strength, 5mm	-	10.2	-	-
Dielectric Loss, 25°C @MHZ	-	0.002	0.001	0.001-0.1
Permittivity, 25°C @MHZ	-	6	29	8.3
Volume Resistivity, 20°C	>10^{14}	>10^{14} 5*10^{12}	>10^{13} 5*10^{8}	10^{11} -10^{12} 4*10^{8}
Long-term Use Temperature, °C	2300	1600	1600	1300
Thermal Conductivity 25°C, W/(m·K)	36	3.6	3	9.46

Item	Recrystallized Silicon Carbide	Silicon Nitride Bonded Silicon Carbide	Boron Nitride
Main Ingredient Content	-	-	<99.2%
Air Tightness	-	Airtight	Apparent Porosity ≤0.1
Bulk Density, kg/m^3	2.7	2.8	2.0-2.2
Hardness	9.5	9	2
Water Absorption	0	0	0
Flexural Strength, 20°C	90	180	30
Compressive Strength, 20°C	600	650	58
Thermal Expansion Coefficient, 25°C-800°C	4.7	5	1.5
Dielectric Strength, 5mm	-	-	-
Dielectric Loss, 25°C @MHZ	-	-	0.00025
Permittivity, 25°C @MHZ	-	-	4
Volume Resistivity, 20°C	-	-	10^{8} -10^{14}
Long-term Use Temperature, °C	1650	1450	In Air Is 900
Thermal Conductivity 25°C, W/(m·K)	23	15	30

KERUI
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