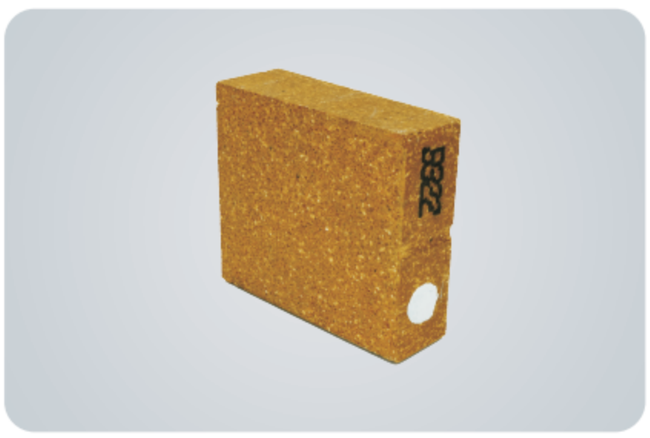
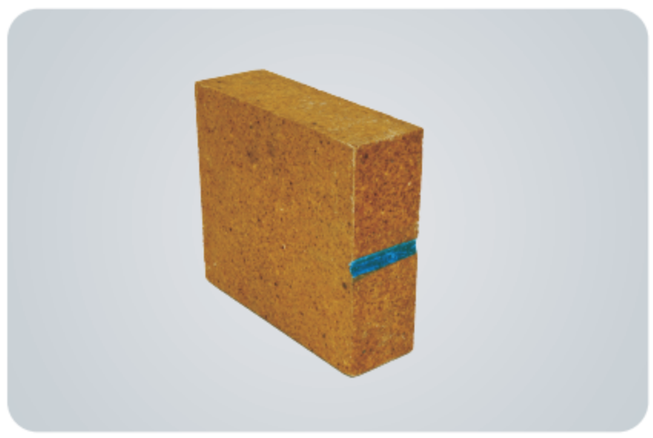
MAIN PRODUCTS
主要产品

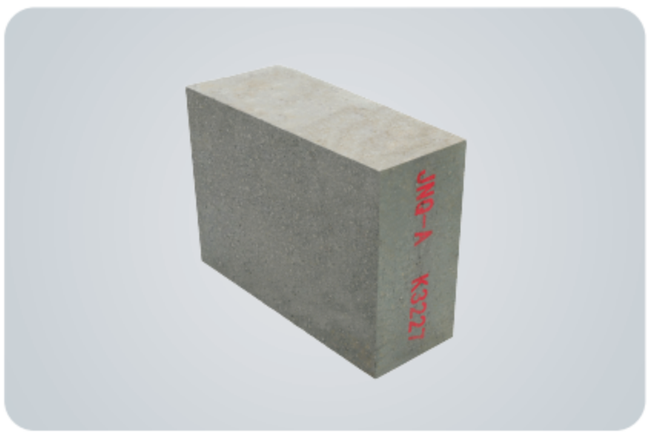


镁铝尖晶石砖
Magnesia-Spinel bricks

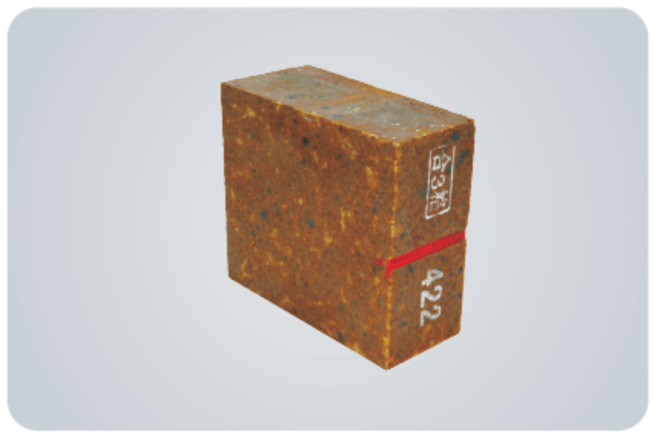


镁铁尖晶石砖
Magnesia Hercynite Bricks

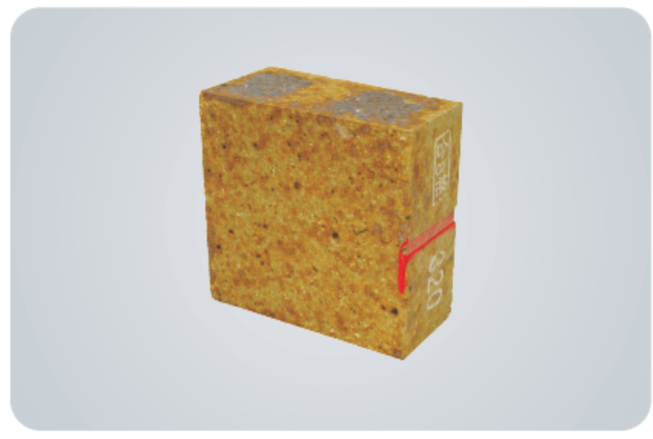
镁铝铬复合尖晶石砖
Magnesium-aluminum-chrome spinel bricks



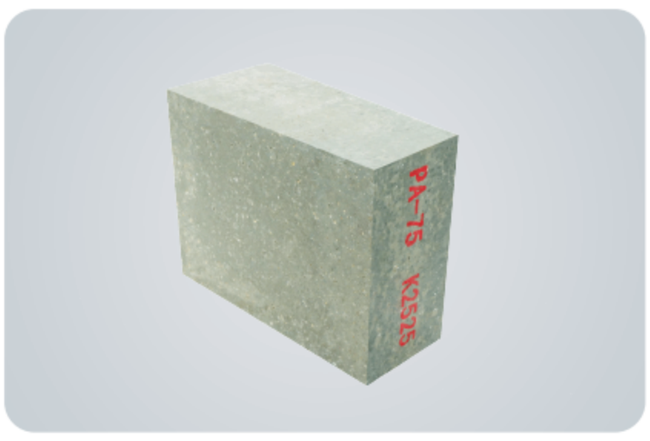
铝尖晶石耐侵砖
Alumina spinel resistant bricks



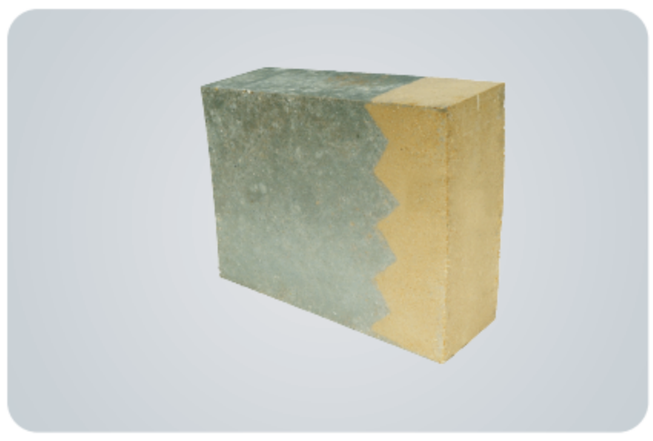
硅莫砖
Guimo bricks



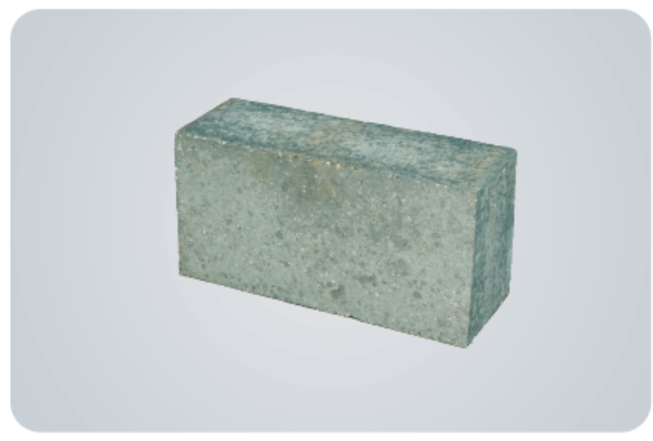
硅莫红砖
GMH bricks



磷酸铝耐磨砖
Phosphate abrasive bricks



高荷软莫来石复合砖
H-RUL mullite composite bricks



铝碳化硅耐磨砖
Aluminum-SiC abrasive bricks

镁铁尖晶石砖>>
Magnesia hercynite bricks

镁铁尖晶石砖采用镁铁尖晶石及高纯镁砂为主要原料，经高压成型、高温烧结而成。该产品的主要特点有：荷重软化温度高，抗热震性能优良，对碱盐物料的抗侵蚀和抗渗透能力强。产品适用于大中型水泥回转窑烧成带。

Magnesia hercynite bricks is made of magnesia hercynite and high purity magnesia as the main raw materials by high pressure molding and high temperature sintering. The main characteristics of the product are: high softening temperature under load, excellent thermal shock resistance, corrosion resistance and permeability resistance of alkali and salt materials. The product is suitable for large and medium-sized cement rotary kiln firing belt.

项目 Item	镁铁尖晶石砖 Magnesia Hercynite Bricks MFe-80A	MFe-80B
主要技术指标/Main technical indicators		
MgO/ (%) ≥	85	80
SiO_2/ (%) ≤	1.5	2.5
Fe_2O_3/ (%)	5~8	5~8
体积密度 / (g/cm^3) ≥ Bulk density	3.00	2.90
显气孔率 / (%) ≤ Apparent porosity	18	19
常温耐压强度 / (Mpa) ≥ Cold crushing strength	50	45
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1650	1600
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	8	6
导热系数 (1000℃) (w/m.k) Thermai conductivity	2.6	2.6

镁铝尖晶石砖>>
Magnesium aluminate spinel bricks

镁铝尖晶石砖是以高纯度镁砂和合成镁铝尖晶石砂为主要原料，主晶相为方镁石相和镁铝尖晶石相。制品具有高温性能好，热震稳定性高，抗碱性物质侵蚀性能强、耐磨性好、抗高温热负荷柔性好的特点。

Magnesium aluminate spinel bricks is made of high purity magnesia and synthetic magnesia spinel sand. The main crystalline phase is magnesite phase and magnesia spinel phase. The product has the characteristics of good high temperature performance, high thermal shock stability, strong resistance to alkaline material erosion, good wear resistance, high temperature thermal load flexibility.

项目 Item	镁铝尖晶石砖 Magnesia-Spinel Bricks MA-85A	MA-85B
主要技术指标/Main technical indicators		
MgO/ (%) ≥	83	80
Al_2O_3/ (%)	9	9
体积密度 / (g/cm^3) ≥ Bulk density	2.90	2.85
显气孔率 / (%) ≤ Apparent porosity	18	18
常温耐压强度 / (Mpa) ≥ Cold crushing strength	50	45
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1700	1650
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	10	10
导热系数 (1000℃) (w/m.k) Thermai conductivity	3.0	3.0

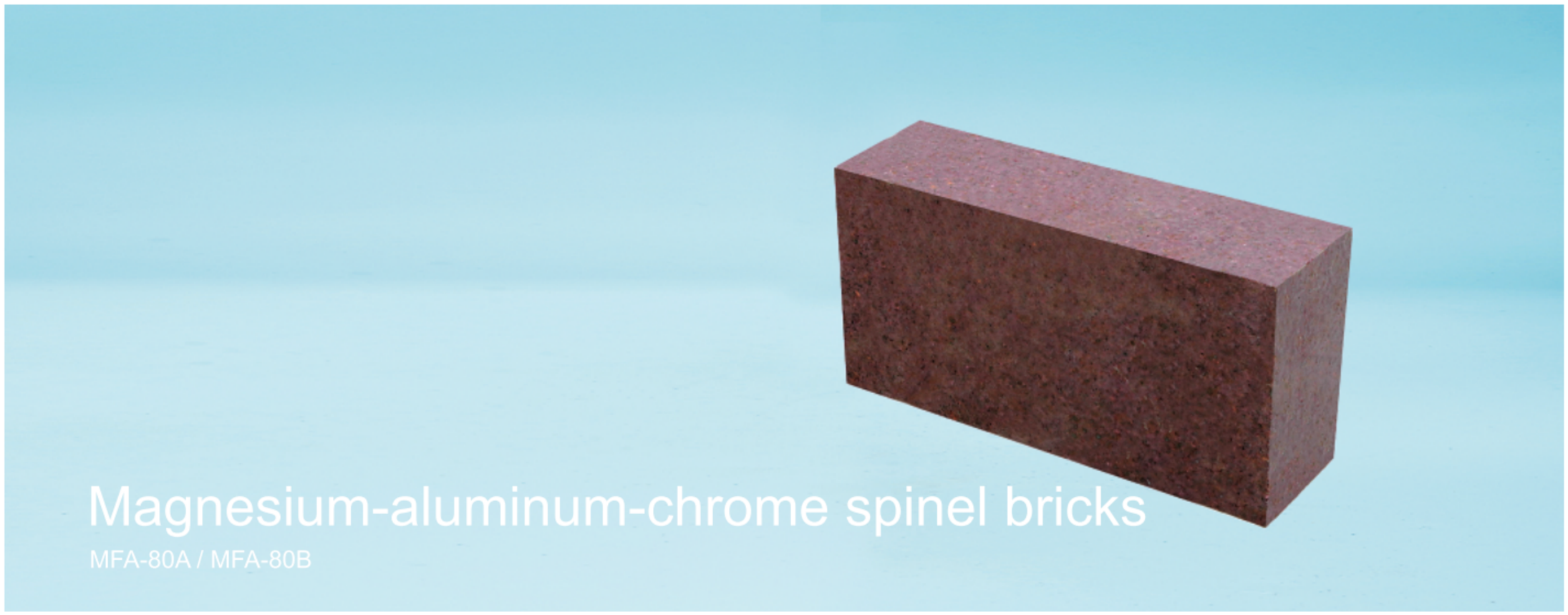
镁铁铝复合尖晶石砖>>
Mafic alumina spinel bricks

镁铁铝复合尖晶石砖，具有无铬环保优势、良好的热震稳定性、良好的挂“窑皮”能力，良好的耐侵蚀性能、低热膨胀和低热导率，和较好的结构柔韧性，在实际应用中，该砖使用寿命超过1年，烧成带挂窑皮迅速，窑皮厚度均匀稳定，耐火砖无大块剥落现象，停窑无耐火砖剥落现象，窑筒体温度低、热能损耗少。

Mafic alumina spinel bricks, has the chromium-free environmental advantage, good thermal shock stability, good hang "kiln skin" ability, good erosion resistance, low thermal expansion and low thermal conductivity, and good structure flexibility, in practice, the brick the service life of more than 1 year, hang the firing kiln skin quickly, kiln skin thickness is uniform and stable, firebrick no large peeling phenomenon, There is no peeling phenomenon of refractory brick in kiln stop, and the temperature of kiln barrel is low and the heat energy loss is less.

项目 Item	镁铁铝复合尖晶石砖 Mafic alumina spinel bricks MFA-80A	 MFA-80B
主要技术指标/Main technical indicators		
MgO/ (%) ≥	85	80
Al_2O_3/ (%)	4~6	4~6
SiO_2/ (%) ≤	1.5	2.0
Fe_2O_3/ (%)	3~5	3~5
体积密度 / (g/cm^3) ≥ Bulk density	2.95	2.90
显气孔率 / (%) ≤ Apparent porosity	18	18
常温耐压强度 / (Mpa) ≥ Cold crushing strength	50	45
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1680	1650
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	8	8
导热系数 (1000℃) (w/m.k) Thermai conductivity	2.8	2.8

镁铝铬复合尖晶石砖>>
Magnesium-aluminum-chrome spinel bricks



镁铝铬复合尖晶石砖采用高纯镁砂，合成优质铝铬尖晶石为主要原料，经过高压成形、高温烧成的一种高档产品。它不仅抗渗透能力好，而且抗热震性能优异、广泛应用于有色行业的锌挥发窑和有色冶炼炉炉顶、以及钢铁行业的高温窑炉炉顶。

Magnesium-aluminum-chromium composite spinel brick is a kind of high-grade product made of high purity magnesia and synthetic high-quality aluminum-chromium spinel as the main raw material through high pressure forming and high temperature firing. It not only has good permeability resistance, but also has excellent thermal shock resistance. It is widely used in the top of zinc volatilizing kiln and non-ferrous smelting furnace in the non-ferrous industry, as well as the top of high temperature kiln in the iron and steel industry.

项目 Item	镁铝铬复合尖晶石砖 Magnesium-aluminum-chrome spinel bricks MLG-80
主要技术指标/Main technical indicators	
MgO/ (%) ≥	80
Al_2O_3/ (%)	6~8
Cr_2O_3/ (%)	3~5
体积密度 / (g/cm^3) ≥ Bulk density	2.95
显气孔率 / (%) ≤ Apparent porosity	18
常温耐压强度 / (Mpa) ≥ Cold crushing strength	60
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1650
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	8
导热系数 (1000℃) (w/m.k) Thermai conductivity	2.8

硅莫红砖、低导热硅莫红砖>>

GMH bricks、Low thermal conductivity GMH bricks

硅莫红砖是采用高品质铝矾土熟料、高品位碳化硅、红柱石以及复合添加剂经高压成型、高温烧结而成。产品的主要特点有：抗热震性能优良，荷重软化温度高，耐压强度高，耐磨性好以及对碱盐物料的抗侵蚀和抗渗透能力强。产品适用于大中型水泥回转窑过渡带。

低导热硅莫红砖是在硅莫红砖的基础上加入轻质保温层和隔热纤维层，从而大幅降低了产品的整体导热系数，使筒体温度明显降低50~100℃。

GMH bricks is made of high quality bauxite clinker, high grade silicon carbide, andalusite and compound additive by high pressure molding and high temperature sintering. The main features of the product are: excellent thermal shock resistance, high softening temperature under load, high compressive strength, good wear resistance and strong anti-erosion and anti-penetration ability of alkali and salt materials. The product is suitable for transition zone of medium and large cement rotary kiln.

The low thermal conductivity of silamonium brick is added on the basis of the silamonium brick light insulation layer and heat insulation fiber layer, so as to greatly reduce the overall thermal conductivity of the product, so that the temperature of the cylinder is significantly reduced by 50~100℃.

项目 Item	硅莫红砖 GMH Bricks GMH-1	 GMH-2	保温层 Insulation layer	隔热层 Thermal-protective coating
主要技术指标/Main technical indicators				
Al_2O_3/ (%) ≥	66	62	/	/
体积密度 / (g/cm^3) ≥ Bulk density	2.70	2.65	<1.8	<0.3
显气孔率 / (%) ≤ Apparent porosity	18	20	/	/
常温耐压强度 / (Mpa) ≥ Cold crushing strength	100	90	40	/
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1650	1600	1400	/
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	15	12	/	/
导热系数 (1000℃) (w/m.k) Thermai conductivity	2.0	2.0	1.0	0.12 (600℃)
常温耐磨性/ (cm^3) Abrading resistance	7	8	/	/

硅莫砖>>
Guimo bricks

硅莫砖采用优质碳化硅和高纯铝矾土熟料为主要原料，经特殊工艺成型、高温烧结而成。该产品的主要特点有：耐压强度高、耐磨性好，并在使用过程中形成致密釉膜保护层，能够减少结圈和具有较高的抗化学侵蚀的能力。

Silamo brick is made of high quality silicon carbide and high purity bauxite clinker as the main raw materials, which is formed by special process and sintered at high temperature. The main characteristics of this product are: high compressive strength, good wear resistance, and in the use of the process of forming a dense glaze film protective layer, can reduce the ring and has a high ability of chemical erosion resistance.

项目 Item	硅莫砖 Guimo Bricks AZM-1680	AZM-1680	AZM-1680
主要技术指标/Main technical indicators			
Al_2O_3/ (%) ≥	65	63	60
体积密度 / (g/cm^3) ≥ Bulk density	2.60	2.55	2.50
显气孔率 / (%) ≤ Apparent porosity	20	22	22
常温耐压强度 / (Mpa) ≥ Cold crushing strength	90	85	80
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1650	1600	1550
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	10	10	10
导热系数 (1000℃) (w/m.k) Thermai conductivity	/	/	/
常温耐磨性/ (cm^3) Abrading resistance	7	7	7

铝尖晶石耐侵砖>>
Alumina spinel resistant bricks

铝尖晶石耐侵砖是我公司开发的适用于冶金固体废物处理回转窑烧成带的新一代产品，该产品在高温抗渗透、抗侵蚀、抗应力强度方面的性能较以往产品有了大幅提升，较之前的炉龄普遍提高了1倍以上，目前该产品已得到用户的广泛认可。

Alumina spinel resistant bricks was developed by our company applies to the metallurgical solid waste with rotary kiln calcining zone of a new generation of products, the product in the high temperature permeability resistance, erosion resistance, resistance to stress intensity in the performance of the products has improved than ever before and more before the furnace life is generally more than doubled, and now the products have been widely recognized by users.

项目 Item	铝尖晶石耐侵砖 Alumina spinel resistant bricks JNQ-70A	 JNQ-70B
主要技术指标/Main technical indicators		
Al_2O_3/ (%) ≥	75	70
体积密度 / (g/cm^3) ≥ Bulk density	3.20	3.10
显气孔率 / (%) ≤ Apparent porosity	15	18
常温耐压强度 / (Mpa) ≥ Cold crushing strength	120	100
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1680	1650
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	5	5
导热系数 (1000℃) (w/m.k) Thermai conductivity	2.6	2.6

磷酸铝耐磨砖>>
Phosphate abrasive bricks

磷酸铝耐磨砖以高铝矾土熟料、刚玉、莫来石为主要原材料，采用磷酸盐化学结合工艺。该产品具有以下特点：耐压强度高、气孔率低、抗热震稳定性好、耐磨性好、抗剥落能力强。

Phosphate abrasive brick uses high bauxite clinker, corundum and mullite as the main raw materials, and adopts phosphate chemical bonding technology. The product has the following characteristics: high compressive strength, low porosity, good thermal shock stability, good wear resistance, strong anti-peeling ability.

项目 Item	磷酸铝耐磨砖 Phosphate abrasive bricks					
	PA-80	PA-75	PA-70	PA-65	PA-60	PA-55
主要技术指标/Main technical indicators						
Al_2O_3/ (%) ≥	80	75	70	65	60	55
体积密度 / (g/cm^3) ≥ Bulk density	3.00	2.90	2.80	2.70	2.60	2.50
显气孔率 / (%) ≤ Apparent porosity	12	14	15	16	17	18
常温耐压强度 / (Mpa) ≥ Cold crushing strength	150	120	100	90	80	70
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1550	1500	1480	1450	1400	1350
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	10	10	10	10	10	10
导热系数 (1000℃) (w/m.k) Thermai conductivity	/	2.0	2.0	2.0	2.0	2.0
常温耐磨性/ (cm^3) Abrading resistance	5	5	5	5	5	5

高荷软莫来石复合砖>>
H-RUL mullite composite bricks

高荷软莫来石复合砖是通过提高CaO和耐火材料的反应温度，从而增强了耐火砖抗CaO侵蚀的能力，产品采用双层复合结构，既保证了工作面的优良性能，又降低了耐火砖整体导热系数，产品主要特点：荷重软化温度高、热震稳定性优良、耐压强度高、导热系数低，主要应用于石灰回转窑烧成带和过渡带。

H-RUL mullite composite bricks is by improving the reaction temperature of CaO and refractory material, so as to enhance the ability of refractory brick to resist CaO erosion. The product adopts double layer composite structure, which not only ensures the excellent performance of working surface, but also reduces the overall thermal conductivity of refractory brick. The main features of the product are: High softening temperature under load, excellent thermal shock stability, high compressive strength, low thermal conductivity, mainly used in lime rotary kiln firing zone and transition zone.

项目 Item	高荷软莫来石复合砖(工作层) H-RUL mullite composite bricks (Work layer)		保温隔热层 Thermal insulation layer	
	GHM-16	GHM-15	HW-1.8	HW-2.1
主要技术指标/Main technical indicators				
Al_2O_3/ (%) ≥	65	60	40	45
体积密度 / (g/cm^3) ≥ Bulk density	2.7	2.6	<1.8	<2.1
显气孔率 / (%) ≤ Apparent porosity	15	16	/	/
常温耐压强度 / (Mpa) ≥ Cold crushing strength	100	80	30	40
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1600	1500	/	/
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	15	10	/	/
导热系数 (1000℃) (w/m.k) Thermai conductivity	2.6	2.6	0.8	1

铝碳化硅耐磨砖>>
Aluminum-SiC abrasive bricks

铝碳化硅耐磨砖采用磨料级的铝矾土、SiC原料结合超细粉技术，使用高强度的化学结合剂，并利用大型数控压机高压力成型。与传统的硅莫砖和高铝砖相比，其具有热态强度高、耐磨性能强、气孔率低和高温体积稳定等优点。产品适用于对固体、高温气体冲刷要求较高的热风管道和旋风下料口等部位。

Aluminum-SiC abrasive bricks uses abrasive grade bauxite, SiC raw materials combined with superfine powder technology, the use of high strength chemical binder, and the use of large numerical control press high pressure molding. Compared with traditional silica bricks and high-alumina bricks, it has the advantages of high thermal strength, strong wear resistance, low porosity and stable volume at high temperature. The product is suitable for the hot air pipeline and cyclone discharge port, which require high scouring of solid and high temperature gas.

	铝碳化硅耐磨砖 Aluminum-SiC Abrasive Bricks ASC-1600
主要技术指标/Main technical indicators	
Al_2O_3+SiC/ (%) ≥	80
体积密度 / (g/cm^3) ≥ Bulk density	2.70
显气孔率 / (%) ≤ Apparent porosity	15
常温耐压强度 / (Mpa) ≥ Cold crushing strength	150
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1600
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	15
导热系数 (1000℃) (w/m.k) Thermai conductivity	2.0
常温耐磨性/ (cm^3) Abrading resistance	5

高强度吊挂砖>>
High strength hanging bricks

高强度吊挂砖采用化学结合工艺，较以往高铝吊挂砖的抗拉伸和断裂强度提高了50%以上，有效使用寿命提高了一倍以上。

The high strength hanging brick adopts chemical combination technology, and the tensile strength and fracture strength of high aluminum hanging brick are increased by more than 50%, and the effective service life is increased by more than one time.

项目 Item	高强度吊挂砖 High strength hanging bricks GP-55
主要技术指标/Main technical indicators	
Al_2O_3/ (%)	55
体积密度 / (g/cm^3) ≥ Bulk density	2.5
显气孔率 / (%) ≤ Apparent porosity	18
常温耐压强度 / (Mpa) ≥ Cold crushing strength	70
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1400
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	10

抗剥落高铝砖>>
Spalling resistant high alumina bricks

抗剥落高铝砖是在高铝砖中加入与高铝矾土膨胀不一致的原料，利用复相增韧原理使制品组织结构中产生微裂纹，缓解或阻断热应力造成的破坏，进一步提高了制品的热震稳定性，同时加强了高温及化学抗侵蚀性能，使用寿命是传统高铝砖的3倍以上。其特点是耐剥落、荷重软化温度高。广泛应用于水泥回转窑过渡带、窑门罩、分解炉等。

Spalling resistant high alumina bricks is joined in the high alumina bricks do not agree with high bauxite expansion of raw material, using complex phase toughening principles to make the organizational structure of micro cracks, alleviate or block the damage caused by thermal stress, further improve the thermal shock stability of the products, and strengthened the high temperature and chemical erosion resistance, service life is 3 times more than traditional high alumina brick. It is characterized by resistance to peeling and high softening temperature under load. Widely used in cement rotary kiln transition belt, kiln door cover, decomposing furnace, etc.

项目 Item	抗剥落高铝砖 Spalling Resistant High Alumina Bricks YRS-70	YRS-65
主要技术指标/Main technical indicators		
Al_2O_3/ (%) ≥	70	65
体积密度 / (g/cm^3) ≥ Bulk density	2.60	2.4
显气孔率 / (%) ≤ Apparent porosity	22	22
常温耐压强度 / (Mpa) ≥ Cold crushing strength	70	60
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1470	1450
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	20	15
导热系数 (1000℃) (w/m.k) Thermai conductivity	/	/

高强耐碱砖>>
High strength alkali-resistant bricks

高强耐碱砖是由低铝耐火粘土为主要原料烧制而成，具有在水泥窑系统中耐碱侵蚀特性的粘土质耐火砖。该产品采用科学的高温陶瓷化晶相结构，封闭了产品开口气孔通道，从而达到抗化学侵蚀和防止物料渗透沉积裂解的目的。为此该系列产品在水泥窑预热系统中得到了良好应用。

High strength alkali resistant bricks is made of low alumina refractory clay as the main raw material. It is clay refractory brick with alkali resistance in cement kiln system. The product adopts scientific high temperature ceramic crystal phase structure, sealing the product's opening and porosity channel, so as to achieve the purpose of resisting chemical erosion and preventing the material from penetrating and deposition cracking. Therefore, the products have been well used in the preheating system of cement kiln.

项目 Item	高强耐碱砖 High Strength Alkali-resistant Bricks GNJ
主要技术指标/Main technical indicators	
Al_2O_3/ (%) ≥	40
体积密度 / (g/cm^3) ≥ Bulk density	2.20
显气孔率 / (%) ≤ Apparent porosity	24
常温耐压强度 / (Mpa) ≥ Cold crushing strength	60
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load	1350
抗热震性 (1100℃~水冷) / (次) ≥ Thermal Shock resistance	5
导热系数 (1000℃) (w/m.k) Thermai conductivity	/
耐碱性 Alkali-Resistance	一级Level 1

刚玉莫来石质耐火浇注料>>
Corundum mullite refractory castable

主要性能特点：
>以高致密度、高熔点莫来石和板状刚玉为主要原料，具有优异的高温、高强使用性能；
>具有良好的热震稳定性，有效解决了产品在使用过程中剥落现象的发生；
>内部晶相结构稳定，抗侵蚀、抗磨损能力强。

Main performance features:
> With high density, high melting point mullite and tabular corundum as the main raw materials, with excellent high temperature, high strength performance;
> With good thermal shock stability, effectively solve the phenomenon of spalling phenomenon in the use of the product;
> Stable internal crystal phase structure, strong resistance to erosion and wear.

项目 Item		刚玉莫来石质耐火浇注料 Corundum mullite refractory castable J-GM80A	J-GM80B	J-GM80C
主要技术指标/Main technical indicators				
$Al_2O_3+SiO_2$/ (%) ≥		85	80	75
体积密度 / (g/cm^3) ≥ Bulk density		2.80	2.70	2.60
耐压强度 / (Mpa) ≥ Crushing strength	110℃ × 24h	110	100	90
	1100℃ × 3h	120	110	100
	1500℃ × 3h	120	110	100
抗折强度 / (Mpa) ≥ Modulus of rupture	110℃ × 24h	11	10	9
	1100℃ × 3h	12	11	10
	1500℃ × 3h	12	11	10
永久线变化/ (%) ≤ Permanent linear change	1100℃ × 3h	±0.3	±0.3	±0.3
	1500℃ × 3h	±0.5	±0.5	±0.5
最高使用温度 (℃) maximum service temperature		1650	1600	1550
参考用水量 (%) water addition		5~7	6~8	6~8
施工方式 construction way		振动Vibrate	振动Vibrate	振动Vibrate
使用部位 Application		回转窑窑口及喷煤管 Rotary kiln mouth or Pulverized coal burner	回转窑窑口及喷煤管 Rotary kiln mouth or Pulverized coal burner	回转窑窑口及喷煤管 Rotary kiln mouth or Pulverized coal burner

高强耐磨耐火浇注料>>
High strength wear resistant refractory castable

主要性能特点：
>采用致密高强耐火原料，运用科学粒度级配，使材料对微细颗粒和大颗粒冲刷都具有优良的抗磨损性能；
>采用超细粉和高效添加剂技术，具有整体性好、显气孔率低、强度高、热稳定性好和抗侵蚀性能强等优点。

Main performance features:
> The use of dense high-strength refractory materials, the use of scientific particle size grading, so that the material has excellent wear resistance to the erosion of fine particles and large particles;
> The use of ultrafine powder and efficient additive technology, with good integrity, low apparent porosity, high strength, good thermal stability and strong erosion res**istance, etc.**

项目 Item		高强耐磨耐火浇注料 High strength wear resistant refractory castable J-GN80A	J-GN80B	J-GN70
主要技术指标/Main technical indicators				
Al_2O_3+SiC/ (%) ≥		80	75	70
体积密度 / (g/cm^3) ≥ Bulk density		2.80	2.70	2.60
耐压强度 / (Mpa) ≥ Crushing strength	110℃ × 24h	150	120	100
	1100℃ × 3h	150	120	100
抗折强度 / (Mpa) ≥ Modulus of rupture	110℃ × 24h	15	12	10
	1100℃ × 3h	15	12	10
永久线变化/ (%) ≤ Permanent linear change	1100℃ × 3h	±0.3	±0.3	±0.3
	1350℃ × 3h	±0.5	±0.5	±0.5
最高使用温度 (℃) maximum service temperature		1500	1450	1400
参考用水量 (%) water addition		5~7	6~8	6~8
施工方式 construction way		振动Vibrate	振动Vibrate	振动Vibrate

碳化硅抗结皮浇注料>>

Low cement high aluminum castable

项目 Item		碳化硅抗结皮浇注料 Low cement high aluminum castable KJP-20	KJP-30	KJP-40
主要技术指标/Main technical indicators				
SiC/ (%) ≥		20	30	40
体积密度 / (g/cm^3) ≥ Bulk density		2.4~2.6	2.4~2.6	2.4~2.6
耐压强度 / (Mpa) ≥ Crushing strength	110℃ × 24h	80	90	100
	1100℃ × 3h	80	90	100
抗折强度 / (Mpa) ≥ Modulus of rupture	110℃ × 24h	8	9	10
	1100℃ × 3h	8	9	10
永久线变化/ (%) ≤ Permanent linear change	1100℃ × 3h	±0.4	±0.4	±0.4
	1350℃ × 3h	±0.5	±0.5	±0.5
最高使用温度 (℃) maximum service temperature		1300	1400	1500
抗结皮性 Skinning resistance	1100℃ × 3h	三级	二级	一级
参考用水量 (%) water addition		6~8	6~8	6~8
施工方式 construction way		振动Vibrate	振动Vibrate	振动Vibrate

钢纤维增强耐火浇注料>>
Steel fiber reinforced refractory castable

项目 Item		钢纤维增强耐火浇注料 Steel fiber reinforced refractory castable J-GF16	J-GF15
主要技术指标/Main technical indicators			
Al_2O_3/ (%) ≥		65	60
体积密度 / (g/cm^3) ≥ Bulk density		2.4~2.6	2.3~2.5
耐压强度 / (Mpa) ≥ Crushing strength	110℃ × 24h	110	100
	1100℃ × 3h	110	100
抗折强度 / (Mpa) ≥ Modulus of rupture	110℃ × 24h	11	10
	1100℃ × 3h	11	10
永久线变化/ (%) ≤ Permanent linear change	1100℃ × 3h	±0.4	±0.4
	1350℃ × 3h	±0.5	±0.5
最高使用温度 (℃) maximum service temperature		1600	1500
参考用水量 (%) water addition		6~7	6~8
施工方式 construction way		振动Vibrate	振动Vibrate

高铝低水泥浇注料>>
Low cement high aluminum castable

项目 Item		高铝低水泥浇注料 Low cement high aluminum castable J-G16	 J-G15
主要技术指标/Main technical indicators			
Al_2O_3/ (%) ≥		65	60
体积密度 / (g/cm^3) ≥ Bulk density		2.4~2.6	2.3~2.5
耐压强度 / (Mpa) ≥ Crushing strength	110℃ × 24h	90	80
	1100℃ × 3h	90	80
抗折强度 / (Mpa) ≥ Modulus of rupture	110℃ × 24h	9	8
	1100℃ × 3h	9	8
永久线变化/ (%) ≤ Permanent linear change	1100℃ × 3h	±0.4	±0.4
	1350℃ × 3h	±0.5	±0.5
最高使用温度 (℃) maximum service temperature		1600	1500
参考用水量 (%) water addition		6~7	6~8
施工方式 construction way		振动Vibrate	振动Vibrate

耐碱浇注料>>
Alkali-resistant castable

项目 Item		高强耐碱浇注料 High strength alkali-resistant castable GT-13NL	高温高强耐碱浇注料 High temperature and high strength alkali-resistant castable G-14N
主要技术指标/Main technical indicators			
Al_2O_3/ (%) ≤		50	50
SiO_2/ (%) ≥		40	40
体积密度 / (g/cm^3) ≥ Bulk density		2.1~2.3	2.2~2.3
耐压强度 / (Mpa) ≥ Crushing strength	110℃ × 24h	70	80
	1100℃ × 3h	70	80
抗折强度 / (Mpa) ≥ Modulus of rupture	110℃ × 24h	7	8
	1100℃ × 3h	7	8
永久线变化/ (%) ≤ Permanent linear change	1100℃ × 3h	±0.4	±0.4
	1350℃ × 3h	/	±0.5
最高使用温度 (℃) maximum service temperature		1300	1400
参考用水量 (%) water addition		7~8	7~8
施工方式 construction way		振动Vibrate	振动Vibrate

耐高温粘结剂>>
High temperature resistant binder

耐高温粘结剂是通过无机凝胶在高温下与耐火材料产生化学反应生成耐高温的高强度化合物，产品具有凝固时间适宜、粘结强度高、高温性能好等特点。

High temperature resistant binder is a high temperature resistant high strength compound produced by chemical reaction between inorganic gel and refractory material at high temperature. The product has the characteristics of suitable solidification time, high bond strength and good high temperature performance.

项目 Item		耐高温粘结剂 High temperature resistant binder HN-50	HN-60	HN-70
主要技术指标/Main technical indicators				
Al_2O_3/ (%) ≥		50	60	70
抗折粘结强度 / (Mpa) ≥ Flexural bond strength	110℃ × 24h	1	1	1
	1400℃ × 3h	5	6	7
永久线变化/ (%) ≤ Permanent linear change	1400℃ × 3h	-5~1	-5~1	-5~1
荷重软化温度 (T0.6) / (℃) ≥ Refractoriness under load		1400	1500	1600
粘结时间（min） Bonding time		1~5	1~5	1~5
粒度（%） Particle size	<1.0mm	100	100	100
	>0.5mm,不大于	2	2	2
	<0.075mm，不小于	50	50	50