



以创新创造价值 以创新确保发展

ZHENGZHOU RONGSHENG KILN REFRACTORY CO., LTD.



Establish a national brand and a century-old Rongsheng Group

>>> COMPANY PROFILE

Zhengzhou Rongsheng Kiln Refractory Co., Ltd. is located in the inner land of Central Plains and at the foot of Fuxi Mountain, the east foot of Songshan Mountain. After 20 years of development, Rongsheng has developed into a well-known professional Refractory manufacturer in China with the advantages of abundant resources, advanced communication and convenient transportation. The registered capital of the company is 56.66 million and the sale of 2018 has reached to 120 million. Our company produces and sells shaped and unshaped refractories for metallurgical, foundry, non-ferrous, chemical, building materials and electric power industries, and undertakes the design, installation, construction, maintenance and technical services of refractories for the above industries. Rongsheng refractory has 435 employees, 168 professional and technical personnel and 266 personnel of college or higher education.

Our company has passed ISO 9001 quality management system certification, ISO 14001 environmental management system certification, OHSAS 18001 occupational health and safety management system certification and other certifications. Paying attention to scientific and technological innovation and product development, we have our own R&D centers and key laboratories and also have established close cooperation with domestic institutions of higher learning and research institutions.

The company now has two fully automatic unshaped refractory production lines with an annual output of 100,000 tons, one shaped refractory production line with an annual output of 40,000 tons, one prefabricated production line with an annual output of 20,000 tons, three light refractory bricks production lines with an annual output of 20,000 tons and two refractory plastics production lines with an annual output of 5,000 tons. We have developed firm business relationships with nearly 100 large and medium-sized enterprises and institutes in China. And some products have been exported to many countries and regions in Europe, America, Middle East and Southeast Asia.

Looking forward to the future, the company will unswervingly implement the strategy of Quality & Brand, stick to the business philosophy of "adhere to quality with responsibility, serve customers with integrity", and strive to become the leading enterprise in the international refractory industry.



Metallurgy

1.1 Refractory of Tapping Hole of Blast Furnace

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity %
		Al ₂ O ₃	Fe ₂ O ₃	C+SiC+Si ₃ N ₄			
Water-free Taphole Mix RS-NP1600	Alumina	≥30.0	≤3.0	≥20.0	≥1.7	≥12/1200°C	/
Castable for Main Runner RS-ZTG-C	Corundum	≥70.0	/	≥10.0	≥2.85	≥20/1450°C	/
Castable for Skimmer RS-PZQ-C	Corundum	≥75.0	/	≥15.0	≥2.85	≥80/1450°C	/
Castable for Iron Runner RS-TG-C	Alumina	≥60.0	/	≥10.0	≥2.75	≥55/1450°C	/
Castable for Slag Runner RS-ZG-C	Alumina	≥55.0	/	≥18.0	≥2.7	≥35/1450°C	/
Castable for Swing Spout RS-BM-C	Alumina	≥60.0	/	≥15.0	≥2.9	≥80/1450°C	/

1.2 Refractory for Metal Ladle

Fireclay Brick for ladle RS-IBN45	Alumina	≥45	≤1.6	/	2.5	≥40	≤24
Castable for for ladle RS-IBC	Alumina	≥60		≥15	2.7	≥60/1450°C	/

1.3 Refractory for Torpedo Ladle

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity %
		Al ₂ O ₃	Fe ₂ O ₃	SiC+C			
Corundum-SiC-C brick RS-FBCSC11	Corundum	≥78.0	≤1.5	≥18.0	≥2.9	/	≤5.0
Alumina-SiC-C Brick RS-FBBSC11	Alumina	≥60.0	/	≥18.0	≥2.85	≥40.0	≤7.0
Permanent Layer Brick RS-FBLN45	Alumina	≥45.0	≤2.0	/	≥2.15	≥30.0	≤24

1.4 Refractory for Converter

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity %
		Mgo	C	Fe ₂ O ₃			
Magnesia Carbon Brick RS-CSMT-18A	Magnesia	≥72.0	≥18.0	/	≥2.97	≥35.0	≤4.0



1.5 Refractory for Steelmaking electric furnace

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity %
		Mgo	C	SiO ₂			
Magnesia Carbon Brick RS-EAFMT-14A	Magnesia	≥76.0	≥14.0	/	≥3.03	≥40.0	≤3.5
Gunning Castbale RS-EAFG18	Magnesia	≥83.0		≤7.0	≥2.3	/	/
Ramming Castable RS-EAFRM18	Magnesia	≥80.0	Fe ₂ O ₃ :3-6	≤2.0	/	/	/

1.6 Refractory for Ladle

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity %
		Mgo	Al ₂ O ₃	C			
Magnesite Carbon Brick RS-SLMT-14A	Magnesia	≥76.0	/	≥14.0	≥3.03	≥40.0	≤3.5
Magnesium Aluminum Carbon Brick RS-SLMAT18	Magnesia/ Alumina	≥53.0	≥25.0	≥10.0	≥2.9	≥35.0	≤6.0
Aluminum Magnesia Carbon brick RS-SLAMT18	Alumina/ Magnesia	≥15.0	≥60.0	≥8.0	≥2.9	≥40.0	≤8.0
Corundum spinel castable RS-SLCMA18	Corundum	≥5.0	≥85.0	/	≥3.2	≥50.0/1550°C	/
Mullite self-flowing castable RS-SLM15	Mullite	/	≥65.0	/	≥2.6	≥60.0/1450°C	/
Porous plug RS-SLAB18	Chrome corundum	/	Al+Cr≥93.0	/	≥3.1	≥80.0	/
Pocket block RS-SLBC18	Magnesia	/	Al+Cr+MgO ≥90.0	/	≥3.0	≥80.0	/
Slide gate S-SLSP18	Al ₂ O ₃ +C	/	≥70.0	≥7.0	≥3.05	≥130.0	≤8.0
Nozzle RS-SLNB18	Al ₂ O ₃ +C	/	≥75.0	≥4.0	≥2.8	≥90.0	≤8.0
Ceramic Fiber Board RS-CFB13	Ceramic		45	Fe ₂ O ₃ :1.5	280-800	0.4-1.5	Thermal conductivity y,w/(m*k),6 80°C: 0.14
Asbestos-free calcium silicate board RS-CSB10	Calcareous hydrate+cer amic				≤220	Flexural strength,MPa ≥0.3	Thermal conductivity y,w/(m*k),4 00°C: 0.1



1.7 Refractory for Tundish

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	MOR,Mpa
		Al ₂ O ₃	MgO	CaO			
Castable for Tundish permanent layer RS-THLC15	Andalusite	≥60.0	/	≤2.5	≥2.3	≥55.0/1450°C	≥7.0/1450°C
Dry ramming material for Tundish RS-THDRM18	Magnesia	/	≥75.0	/	≥2.2	≥8.0/1500°C	/
Flow stabilizer RS-THCR18	Magnesia/Spinel	/	≥80.0	/	≥2.8	≥60.0	≥7.0
Slagdam RS-THSD18	Magnesia/Spinel	/	≥80.0	/	≥2.85	≥70.0	≥8.0
Impingement plate RS-THSP18	Magnesia/Spinel	/	≥80.0	/	≥2.85	≥75.0	≥9.0

1.8 Refractory for Heating Furnace

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³)	CCS,Mpa	Apparent Porosity,%
		Al ₂ O ₃	Fe ₂ O ₃	SiO ₂			
Light Weight Mullite Brick JM23	Mullite	≥40.0	≤1.0	≤52.0	0.6-1.0	1.8	/
Light Weight Mullite Brick JM26	Mullite	≥50.0	≤1.0	≤41.0	0.7-1.0	2.4	/
Light Weight Mullite Brick JM28	Mullite	≥62.0	≤0.8	≤32.0	0.8-1.0	3.0	/
Light Weight Mullite Brick JM30	Mullite	≥70.0	≤0.6	≤26.0	1.0-1.1	3.6	/
Light Weight Mullite Brick JM32	Mullite	≥79.0	≤0.5	≤23.0	1.1-1.2	4.6	/
Alumina Bubble Brick RS-AHBB16	Alumina	≥98.0	≤0.7	≤1.0	1.4-1.7	3.0-12.0	55-65
Low Cement Castable RS-HFLC15	Alumina	≥60.0	/	CaO≤1.5	≥2.4	≥60.0/1350°C	MOR≥7.0 /1350°C
Mullite Castable RS-HFMLC15	Mullite	≥65.0	/	CaO≤1.5	≥2.60	≥80.0/1350°C	MOR≥9.0 /1350°C
Corundum Mullite Self-flow Castable RS-HFCMLC15	Corundum Mullite	≥80.0	/	CaO≤1.5	≥2.75	≥70.0/1350°C	≥8.0/1350°C
Chrome Corundum Brick RS-HFCAB15	Corundum Chrome	≥80.0	≤0.5	Cr ₂ O ₃ :10-20	3.1-3.3	≥120.0	≤18.0



Casting

2.1 Medium Frequency Furnace, Power Frequency Furnace and Cupola

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Working Temperature ,°C
		Al ₂ O ₃	Fe ₂ O ₃	SiO ₂			
Acid Dry Ramming RS-ADRC18	Silica	/	/	≥99.0	2.25-2.35		1480-1650
Neutral Dry Ramming RS-ADAS18	Alumina	≥88.0	/	MgO≥8.0	2.90-3.10		1670-1800
Alkaline Dry Ramming RS-ADRM18	Magnesia	MgO≥95.0	/	/	≥2.85	/	1550-1830
Corundum Mullite Castable RS-CMLC18	Corundum Mullite	≥75.0	≤1.0	≤20.0	≥2.80	≥100.0/ 1600°C	1550-1700
Coil Clay RS-CDM19	Mullite	≥70.0	≤0.8	/	/	/	/

2.2 Refractory for Metal Ladle and Steel Ladle

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity,%
		Al ₂ O ₃	Fe ₂ O ₃	SiC			
Mullite Castable RS-MLC18	Mullite	≥65.0	≤1.5	/	≥2.5	≥80.0/1450°C	/
Corundum SiC-C Castable RS-CSLC18	Corundum	≥70.0	≤1.5	≥15.0	≥2.8	≥100.0/1450°C	/

2.3 Refractory for Cupola Furnace

Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity, %
		Al ₂ O ₃	Fe ₂ O ₃	Cr ₂ O ₃			
Chrome Corundum Brick RS-CAB10	Mullite	≥90.0	≤0.5	≥5.0	≥3.1	≥120.0	≤15.0
Corundum SiC Brick RS-CSB16	Corundum	≥70.0	≤1.0	SiC≥15.0	≥2.8	≥100.0	≤17.0
Semi-Bonded Magnesia Chrome Brick RS-SRMCB20	Magnesia	MgO≥55.0	SiO ₂ ≤2.5	≥20.0	≥3.1	≥55.0	≤16.0



Cement Rotary Kiln



Product Name	Main Component	Chemical Analysis(%)			Bulk Density (g/cm ³ at 110°C)	CCS,Mpa	Apparent Porosity,%
		Al ₂ O ₃	MgO	Fe ₂ O ₃			
Magnesium Alumina Spinel Brick RS-CMA	Magnesium Alumina Spinel	8.0-13.0	70-80	≤1.5	≥2.95	≥45.0	17-19
Magnesium Iron Spinel Brick RS-CMFA	Magnesium Iron Spinel	3.0-10.0	80-85	3.0-5.0	≥2.95	≥55.0	≤18.0
Direct bonded Magnesia-Chrome Brick RS-CDMG	Magnesia	4.0-6.0	65-80	Cr ₂ O ₃ : 8-16	≥3.15	≥50.0	≤17.0
Magnesia Chrome Brick RS-CMG	Magnesia	5.0-6.0	62-72	Cr ₂ O ₃ : 8-16	≥3.00	≥40.0	18-19
Silicon Mullite Brick RS-CSM	Bauxite , SiC	≥65.0	≥SiC : 20		2.60-2.65	≥80.0	≤18.0
Anti-spalling High Alumina Brick RS-CRT	Bauxite	70.0-78.0	ZrO ₂ : 5-7	≤2.0	≥2.50	≥50.0	≤20.0
Alkali-resistant Brick RS-CRK	Clay	≤40.0	≥50.0	≤2.0	≥2.10	≥40.0	18-20
Refractory castable for Kiln Outlet RS-CRKMC	Andalusite, Silicon carbide	≥35.0	CaO: ≤1.8	SiC≥3 3	≥2.55	≥85.0/1450°C	MOR≥10.0/1450°C
Refractory Castable for Coal Injection Pipe RS-CSPC	Andalusite, Silicon carbide	≥45.0	CaO: ≤1.8	SiC≥2 0.0	≥2.55	≥80.0/1450°C	MOR≥10.0/1450°C
Mullite High Strength Explosion-proof Castable RS-CMLC	Mullite	≥75.0	CaO: ≤1.5	≤2.0	≥2.75	≥60.0/1450°C	MOR≥7.0/1450°C
High Alumina Low Cement Castable RS-CLCC	Bauxite	≥70.0	CaO: ≤1.5	≤2.0	≥2.70	≥65.0/1450°C	MOR≥8.0/1450°C
Alkali Resistant Castable RS-CRKC	Clay clinker	≥48.0	CaO: ≤5.0	SiO ₂ : ≤45.0	≥2.20	≥40.0/1300°C	MOR≥6.0/1300°C
Anti-Crust Castable RS-CRC	Bauxite clinker, Silicon carbide	≥45.0	CaO: ≤2.0	SiC≥2 0.0	≥2.30	≥50.0/1300°C	MOR≥6.0/1300°C



**Becoming a world-leading service provider
of complete set of refractory project solutions**

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Zhengzhou

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