



兴诺源

SINO XINGYUAN REFRACTORIES

Refractory Center

1. Plant introduction

SINO XINGYUAN refractories Co., Ltd. is a modern comprehensive enterprise consisting of scientific research, manufacture and trade. Industrial products of the company are mainly magnesia refractories.

Products of the company: The company possesses domestic advanced production line of refractories used in metallurgy industry; more than 160 sets of extensive manufacturing facilities; and more than 30 sets of checkout equipment. The company's annual output of magnesia carbon brick, alumina magnesia carbon brick and aluminium carbide brick and so on is 70,000 tons

Quality advantages: All products of the company are in accordance with national standard as well as the enterprise's standard, and has got ISO9001 Quality Management System Certification and ISO14001 Environment Management System Certification.

Scientific and technical advantages: The company invested a large sum of money to built the building of engineering technology center which covers an area of 5,000 square meters in 2012. The company's capability of scientific research and development is abundant.



Plant





研发中心
R&D Center



化学分析实验室
Chemical analysis laboratory



物理实验室
Physical test laboratory



扫描电子显微镜
Scanning electron microscope



X-射线荧光分析仪
X-ray Analyzer



高温耐压试验机
High temperature crushing test machine



高温抗折试验机
High-temperature bending test machine



抗热震试验机
Thermal shock test machine



高温热膨胀仪
High-temperature thermal expansion test machine



超高温隧道窑
Ultra-high temperature tunnel kiln



超高温隧道窑与操作系统
Automatic control system for the
ultra-high temperature tunnel kiln



机压成型设备
Shaping equipments for refractories



机压成型设备
Shaping equipments for refractories



厂房一角
A corner of the plant



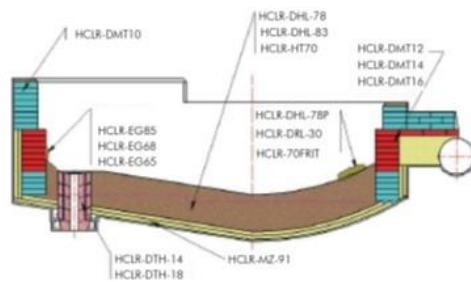
厂房一角
A corner of the plant



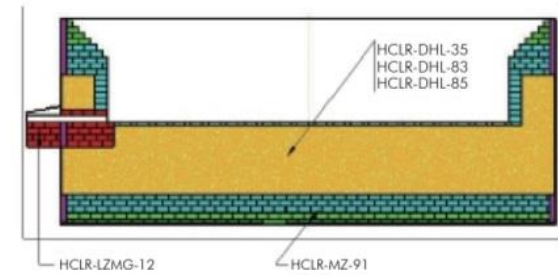
干燥设备
Drying equipments



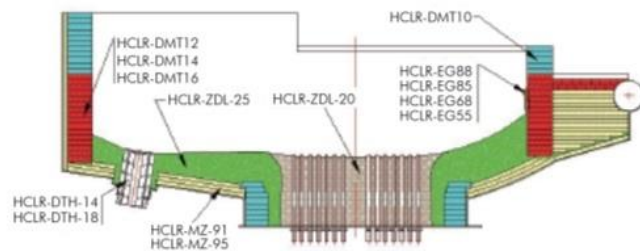
成品仓库
Finished products warehouse



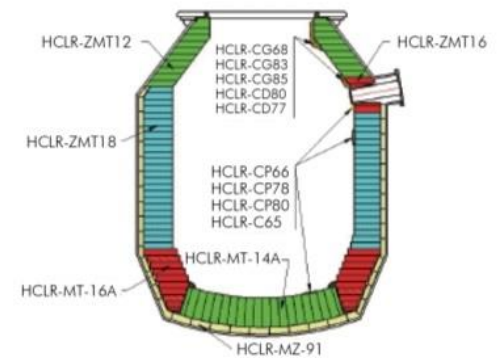
超高功率电炉耐火材料
Refractories for UHP EAF



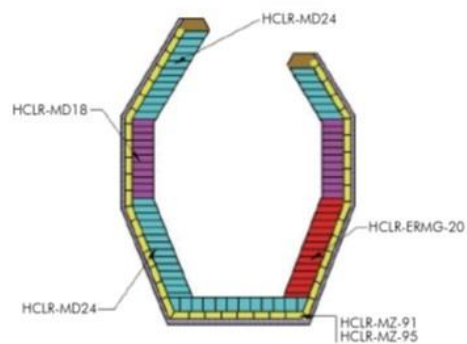
铁合金电炉耐火材料
Refractories for ferroalloy smelting furnace



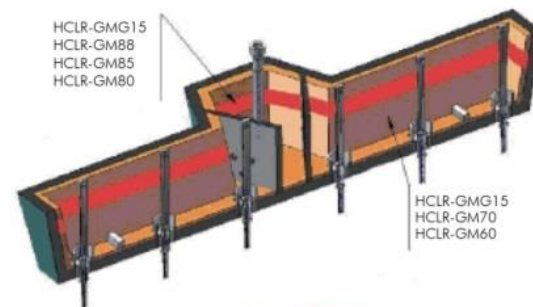
直流电炉耐火材料
Refractories for DC EAF



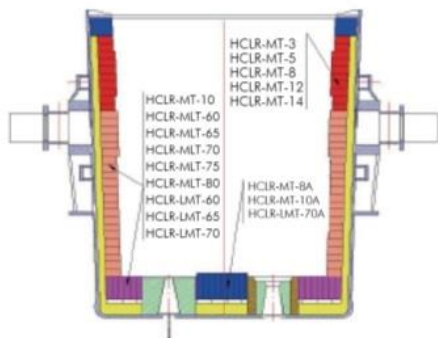
转炉耐火材料
Refractories for BOF



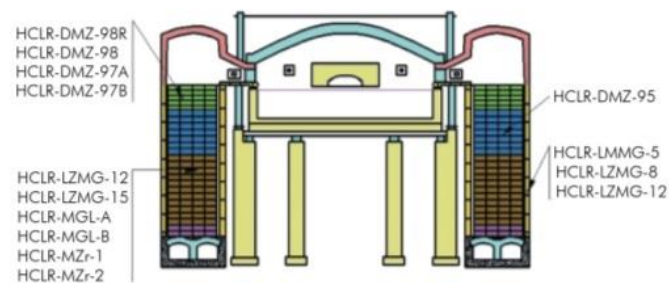
AOD炉耐火材料
Refractories for AOD



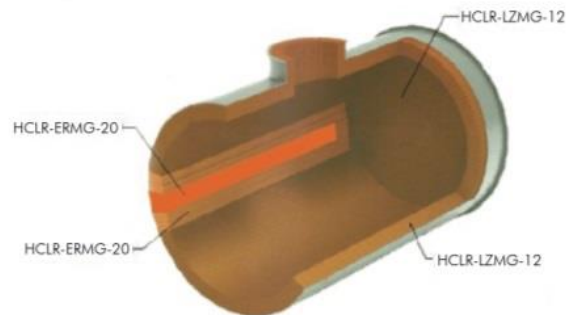
中间包耐火材料
Refractories for Tundish



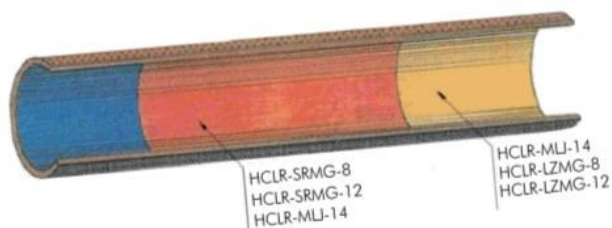
钢包耐火材料
Refractories for steel ladle



玻璃窑蓄热室耐火材料
Refractories for glass furnace regenerator



铜冶炼转炉耐火材料
Refractories for copper converter



水泥回转窑耐火材料
Refractories for rotary cement kiln

电炉炉底捣打料 Ramming Masses for EAF Bottom

牌号 Brand	HCLR-DHL-78	HCLR-DHL-83	HCLR-ZDL-20	HCLR-ZDL-25	HCLR-HT70
MgO/%	≥78	≥81	≥81	≥80	63~69
CaO/%	12~16	8~12	11~14	13~16	24~29
Fe ₂ O ₃ /%	4~6	4~6	3~5	3~5	4~6
粒度 Particle size/mm	0~6	0~6	0~6	0~6	0~6
耐压强度 CCS/MPa	1300℃, 3h	≥10	≥10	≥8	≥8
	1600℃, 3h	≥35	≥35	≥35	≥35
烧后线变化 LC/%	1300℃, 3h	0~-0.5	0~-0.5	0~-0.5	0~-0.5
	1600℃, 3h	-1~-3.0	-1~-3.0	-1~-3.0	-1~-3.0
主要用途 Application	电炉炉底和炉坡 Used for ramming the bottoms and slopes of EAF				

电炉热修补料 Hot Repairing Mixes for EAF

牌号 Brand	HCLR-DHL-78P	HCLR-DRL-30	HCLR-70FRIT
MgO/%	≥75	≥82	63~69
CaO/%	13~17	8~12	24~29
Fe ₂ O ₃ /%	4~6	4~6	4~6
粒度 Particle size/mm	0~6	0~6	0~6
耐压强度 CCS/MPa	1300℃, 3h	≥10	≥10
	1600℃, 3h	≥35	≥35
烧后线变化 LC/%	1300℃, 3h	0~-0.5	0~-0.5
	1600℃, 3h	-1~-3.0	-1~-3.0
主要用途 Application	电炉炉底和炉坡的修补 Used for repairing the bottoms and slopes of EAF		

电炉喷补料 Gunning Mixes for EAF

牌号 Brand	HCLRE-G88	HCLRE-G85	HCLRE-G68	HCLRE-G65
MgO/%	≥88	≥85	64~69	64~69
CaO/%	≤4	≤4	<3	>22
SiO ₂ /%	≤5	≤8	<24	<5
Fe ₂ O ₃ /%	≤2	≤3	<6	<5
临界粒度 Critical particle size/mm	4	4	4	4
最高使用温度 Max Appl. temp./℃	1750	1750	1750	1750
主要用途 Application	热区、渣线、炉坡、炉墙、出钢口的热修补 Used for hot patching of the hot spot, slag line, slope, wall and tapping hole of electric furnaces.			

铁合金电炉捣打料 Ramming Masses for Fe-Alloy EAF

牌号 Brand		HCLR-DHL-85	HCLR-DHL-83	HCLR-DHL-35
MgO		≥83	≥81	≥84
CaO		7~10	8~12	7~10
Fe ₂ O ₃		4~6	4~6	4~6
粒度 Particle size/mm		0~6	0~6	0~6
烧后耐压强度 CCS/MPa	1300℃, 3h	≥8	≥10	≥10
	1600℃, 3h	≥35	≥35	≥35
烧后线变化 LC/%	1300℃, 3h	0~-0.5	0~-0.5	0~-0.5
	1600℃, 3h	-1~-3.0	-1~-3.0	-1~-3.0
主要用途 Application		低, 微碳铬铁 Low, extra low carbon Fe-Cr	高碳铬铁, 中碳锰铁 Hi-carbon Fe-Cr medium carbon Fe-Mn	镍铁 Fe-Ni

转炉喷补料 Gunning Mixes for BOF

牌号 Brand	HCLRC-G85	HCLRC-G83	HCLRC-D80	HCLRC-D77	HCLRC-G68
MgO/%	≥85	≥83	≥80	≥77	63~68
CaO/%	≤4	≤4	C≥3	C≥3	≥20
SiO ₂ /%	≤4	≤6	≤2	≤5	≤4
Fe ₂ O ₃ /%	≤1.6	≤2	≤1.6	≤2	3~5
临界粒度 Critical particle size/mm	3	3	3	3	3
最高使用温度 Max app. temp./℃	1800	1800	1800	1800	1800
主要用途 Application	用于转炉炉帽和出钢口部位的修补 Used for repairing the crown and tapping hole of BOF				

转炉热修补料 Hot Repairing Mixes for BOF

牌号 Brand		HCLRC-P80	HCLRC-P78	HCLRC-P65	HCLRC-P66
MgO/%		≥80	≥78	63~68	≥85
SiO ₂ /%		≤2	≤5	≤16	≤8
CaO/%		≤1.6	≤3	≤3	≤3
C/%		≥5	≥5	≥5	环保长寿型
体积密度 BD/g/cm ³	1100℃, 3h	≥2.2	≥2.2	≥2.2	≥2.2
气孔率 AP/%		≤26	≤26	≤26	≤26
抗折强度 MOR /MPa		≥4.5	≥4.5	≥4.5	≥4.5
粒度 Particle size/mm		0~6	0~6	0~6	0~6
最高使用温度 Max app.temp. /℃		1750	1750	1750	1750
主要用途 Application		用于前后面、炉底、耳轴和出钢口部位的热态修补 Used for hot repairing the front and back wall, bottom, trunnion and tapping hole of BOF.			

镁质、镁钙质喷涂料/涂抹料

MgO Based, MgO-CaO Based Gunning Mixes / Trowelling Mixes

牌号 Brand		HCLR-TS85	HCLR-TS65	HCLR-TC85	HCLR-TC65
MgO/ %		≥85	≥65	≥85	≥65
SiO ₂ / %		≤10	≤25	≤8	≤25
烧后线变化LC/ %	110℃,24h	1.0~1.6	1.0~1.6	≥2.0	≥2.0
	1500℃,3h	-1.0~-4.0	-1.0~-4.0	-1.0~-4.0	-1.0~-4.0
抗折强度MOR/ MPa	110℃,24h	≥0.3	≥0.3	≥0.3	≥0.3
	1500℃,3h	≤5.0	≤5.0	≤5.0	≤5.0
耐压强度CCS/ MPa	110℃,24h	≥2	≥2	≥3	≥3
	1500℃,3h	≤10	≤10	≤10	≤10
主要用途 Application		中包工作层的涂抹或喷涂 Used for the working lining of tundish.			

镁质、镁钙质干式料

MgO, MgO-CaO Based Dry Vibration Mixes

牌号 Brand		HCLR-GM60	HCLR-GM70	HCLR-GM80	HCLR-GM85	HCLR-GM88	HCLR-GMG15
MgO/ %		50 ~ 60	≥70	≥80	≥85	≥88	≥70
CaO/ %		-	-	-	-	-	10 ~ 20
体积密度 BD/g.cm ⁻³	220℃,3h	1.8 ~ 2.2	1.8 ~ 2.2	2.1 ~ 2.3	2.1 ~ 2.4	2.1 ~ 2.4	2.0 ~ 2.2
烧后线变化 LC/ %	1500℃,3h	-2.5 ~ 0	-2.5 ~ 0	-2.5 ~ 0	-2.0 ~ 0	-1.5 ~ 0	-3.0 ~ 0
耐压强度 CCS/ MPa	220℃,3h	≥2	≥2	≥5	≥6	≥7	≥5
	1500℃,3h	≤3	≤3	≤3	≤4	≤5	≤5
主要用途 Application		中包工作层干式捣打料 Used for the working lining of tundish.					

镁砖 Magnesite Bricks

牌号 Brand	HCLR-MZ-91	HCLR-MZ-93	HCLR-LMZ-95	HCLR-DMZ-95	HCLR-DMZ-97B	HCLR-DMZ-97A	HCLR-DMZ-98	HCLR-DMZ-98R
MgO/%	≥91	≥93	≥95	≥95	≥96.5	≥97	≥97.5	≥97.5
CaO/%	≤3	≤2.5	≤2.0	≤1.5	≤1.5	≤1.2	≤1.0	≤1.0
SiO ₂ /%	—	—	≤2.0	≤1.5	≤1.2	≤0.8	≤0.5	≤0.5
显气孔率AP/%	≤20	≤18	≤18	≤17	≤17	≤17	≤17	≤17
耐压强度CCS/MPa	≥40	≥50	≥45	≥45	≥50	≥50	≥50	≥50
0.2MPa荷重软化开始温度（T0.6）RUL/℃	≥1520	≥1550	≥1650	≥1650	≥1700	≥1700	≥1700	≥1700
主要用途 Application	冶金炉永久层，耐火原料高温煅烧窑工作衬，玻璃窑蓄热室等 Used for the safety lining of metallurgical furnaces, working lining of refractory materials calcining kilns and glass furnace regenerators.							

普通镁铬砖

Common Magnesite-Chrome Brick

材质 Material	HCLR-MGe-8	HCLR-MGe-12	HCLR-MGe-16	HCLR-MGe-20
MgO/%	≥60	≥55	≥45	≥40
Cr ₂ O ₃ /%	≥8	≥12	≥16	≥20
显气孔率AP/%	≤24	≤23	≤23	≤23
耐压强度CCS/MPa	≥24.5	≥24.5	≥24.5	≥24.5
0.2MPa荷重软化开始温度（T0.6）RUL/℃	≥1530	≥1550	≥1550	≥1550
主要用途 Application	炉外精炼炉、有色金属冶炼炉、水泥回转窑和玻璃窑等 Used for the safety lining of refining furnace, nonferrous metallurgical furnace, cement kiln furnace and glass furnace.			

直接结合镁铬砖 Direct-Bonded Magnesia-Chrome Bricks

牌号 Brand		HCLR-LZMG-5	HCLR-LZMG-8	HCLR-LZMG-12	HCLR-LZMG-15
MgO/%		≥70	≥65	≥60	≥55
SiO ₂ /%		≤1.5	≤1.5	≤1.8	≤1.8
Cr ₂ O ₃ /%		≥5.0	≥8.0	≥12.0	≥15.0
显气孔率AP/%		≤18	≤18	≤18	≤18
耐压强度CCS/MPa		≥40	≥40	≥40	≥40
0.2MPa荷重软化点 (T0.6) RUL /°C		≥1650	≥1650	≥1650	≥1650
热稳定性 TSR/cycle	1300°C-air	≥20	≥20	≥20	≥20
主要用途 Application		钢铁冶金RH炉上部工作层和上中下部安全层，水泥窑烧成带，玻璃蓄热室底部和有色工业窑炉工作层 Used for the safety lining, upper working lining of RH furnace, sintering zone of cement kiln furnace, bottom of glass furnace regenerator, and working lining of nonferrous metallurgical furnaces.			

电熔再/半再结合镁铬砖 Fused-Rebonded/Semi-Rebonded Magnesia-Chrome Bricks

材质 Material		HCLR-ERMG-12	HCLR-ERMG-16	HCLR-ERMG-20
MgO/%		≥60	≥55	≥50
Cr ₂ O ₃ /%		≥12	≥16	≥20
SiO ₂ /%		≤1.5	≤1.5	≤1.5
显气孔率AP/%		≤16	≤16	≤16
耐压强度CCS/MPa		≥40	≥40	≥40
0.2MPa荷重软化点 (T0.6) RUL/°C		≥1700	≥1700	≥1700
热稳定性 TSR/cycle	1300°C-air	≥15	≥15	≥15
	1100°C-water	≥4	≥4	≥4
主要用途 Application		VOD、AOD、RH炉外精炼炉以及铜转炉的关键部位 Used for the working lining of the key locations of RH, VOD, AOD furnaces and copper flash furnace.		

烧成镁白云石砖 Sintered MgO-Dolomite Bricks

牌号 Brand	HCLR-MD24		HCLR-MD18	
	规格值 Specif.	典型值 Typical	规格值 Specif.	典型值 Typical
MgO/%	≥64	70	≥70	77
CaO/%	≥24	28	≥18	21
Σ (A+S+F) /%	≤1.5	1.3	≤1.5	1.32
体积密 BD/g/cm³	≥2.95	3.0	≥2.95	3.03
显气孔率 AP/%	≤12	11	≤12	10.7
耐压强度 CCS/MPa	≥40	65	≥40	67
主要用途 Application	AOD炉工作层 Used for the working lining of AOD furnace.			

镁锆砖 Magnesia-Zirconia Bricks

牌号 Brand		HCLR-MZr-1	HCLR-MZr-2
MgO/%		≥70	≥76
ZrO ₂ /%		≥12	≥12
SiO ₂ /%		≤9.5	≤2.0
CaO/%		≤1.5	≤6.0
显气孔率 AP/%		≤15	≤15.8
体积密度 BD/g/cm³		≥3.08	≥3.15
耐压强度 CCS/MPa		≥65	≥70
热稳定性 TSR/cycle	1100°C-air	≥30	≥30
主要用途 Application		水泥回转窑烧成带及玻璃窑蓄热室等部位 Used for the sintering zone of cement kiln and glass furnace regenerator.	

镁铝尖晶石砖 MgO-Al₂O₃ Spinel Bricks

牌 号 Brand		镁铝砖 MgO-Al ₂ O ₃		高纯镁铝砖 HP MgO-Al ₂ O ₃	镁尖晶石砖 MgO-Spinel	
		HCLR-ML-80A	ML—80B	HCLR-LGML-80	HCLR-MLJ-14	HCLR-MLJ-24
MgO/%		≥80	≥80	≥80	≥76	≥66
Al ₂ O ₃ /%		5~10	5~10	5~10	≥14	≥24
SiO ₂ /%		-	-	≤1.5	≤1.5	≤1.5
显气孔率AP/%		≤18	≤20	≤16	≤17	≤17
耐压强度CCS/MPa		≥40	≥35	≥40	≥40	≥40
0.2MPa荷重软化点(T0.6) RUL /℃		≥1600	≥1580	≥1700	≥1700	≥1700
热稳定性 TSR/cycle	1300℃-air	-	-	≥50	≥50	≥50
	1100℃-water	-	-	≥8	≥8	≥8
主要用途 Application		水泥窑和玻璃窑，镁尖晶石砖还应用于石灰窑 Used for the working lining of cement kiln, glass kiln and lime kiln.				

镁铁尖晶石砖 MgO-Fe₂O₃ Spine Bricks

牌 号 Brand	HCLR-MT
MgO/%	90~94
Al ₂ O ₃ /%	3~4
Fe ₂ O ₃ /%	2.5~4.5
显气孔率AP/%	15.5~17.5
体积密度BD/g/cm ³	2.95~3.00
常温耐压强度CCS/MPa	≥70
荷重软化温度RUL/℃	≥1700
热震稳定性TSR/次 (900℃, 空气冷却, 德国标准DIN_51068)	>100
线性膨胀率CLTE/%	400℃, <0.4; 800℃, <0.9; 1200℃, <1.5
热导率TC/W(m·k) ⁻¹	500℃, <3.6; 750℃, <3.0; 1000℃, <2.6
主要用途 Application	水泥窑烧成带 Sintering zone of cement kiln furnace

镁橄榄石砖 MgO-Olivine Brick

牌 号 Brand	HCLR-MGL-A	HCLR-MGL-B
MgO/%	63~68	62~65
SiO ₂ /%	25~30	24~28
Fe ₂ O ₃ /%	≤5.5	≤5.8
Al ₂ O ₃ /%	≤0.8	3~4
CaO/%	≤1.1	≤1.0
显气孔率AP/%	≥20	≥18
体积密度BD/g/cm ³	≥2.70	≥2.70
耐压强度CCS/MPa	≥50	≥50
0.2MPa荷重软化点 (T0.6) RUL /℃	≥1650	≥1650
热稳定性TSR/cycle(1300℃-air)	≥10	≥15
重烧线变化率PLC)/% (1500℃,3h	+0.1	+0.1
主要用途 Application	玻璃窑蓄热室 Used for glass furnace regenerator.	

镁铝铬砖 MgO-Al₂O₃-Cr₂O₃ Brick

牌 号 Brand	HCLR-MLG
MgO/%	≥70
SiO ₂ /%	≤1.5
Al ₂ O ₃ /%	≥9
Cr ₂ O ₃ /%	≥4
显气孔率AP/%	≤18
耐压强度CCS/MPa	≥40
0.2MPa荷重软化点 (T0.6)RUL/℃	≥1700
热稳定性TSR/cycle(1300℃-air)	≥20
主要用途 Application	锌挥发回转弯反应带 Used for the reaction zone of zinc volatile kiln.

电炉镁碳砖 MgO-C Bricks for EAF

牌号 Brand	HCLR-DMT10	HCLR-DMT12	HCLR-DMT14	HCLR-DMT16
MgO/%, ≥	80	78	76	74
C/%	10~12	12~14	14~16	16~18
显气孔率 AP/%, ≤	3.0	3.0	3.0	3.0
体积密度 BD/ g·cm ⁻³ , ≥	3.00	2.98	2.98	2.98
耐压强度 CCS/MPa, ≥	40	40	40	40
高温抗折强度 HMOR /MPa, (1450℃, 30min)≥	10	12	12	12
主要用途 Application	电炉炉墙 Used for the side wall	电炉渣线、热点部位 Used for the slag line and hot spot		

转炉用镁碳砖 MgO-C Bricks for BOF

牌号 Brand	HCLR-ZMT10	HCLR-ZMT12	HCLR-ZMT14	HCLR-ZMT16	HCLR-ZMT18
MgO/%, ≥	80	78	76	74	72
C/%	10	12	14	16	18
显气孔率 AP/%, ≤	3.0	3.0	3.0	3.0	3.0
体积密度 BD/ g·cm ⁻³ , ≥	3.10	3.10	3.03	3.00	2.97
耐压强度 CCS/MPa, ≥	40	40	40	35	35
高温抗折强度 HMOR /MPa, (1450℃, 30min)≥	8	8	10	10	10
主要用途 Application	炉帽、炉底 Used for the furnace crown and the bottom		耳轴、渣线、熔池 Used for the trunnion, tapping and molten pool		

电炉出钢口镁碳砖 MgO-C Bricks for EAF Tapping Hole

牌号 Brand	HCLR-DTH-14	HCLR-DTH-18
MgO/%, ≥	79	72
C/%	13~15	~18
显气孔率 AP/%, ≤	3.0	3.0
体积密度 BD/ g·cm ⁻³ , ≥	3.00	2.95
耐压强度 CCS/MPa, ≥	40	40
高温抗折强度 HMOR /MPa, (1450℃, 30min)≥	12	15
主要用途 Application	偏心炉底出钢口 Used for the EBT tapping hole	

转炉出钢口镁碳砖 MgO-C Bricks for BOF Tapping Hole

牌号 Brand	HCLR-ZTH12	HCLR-ZTH10	HCLR-ZTH8	HCLR-ZTH6
MgO/%, ≥	78	80	82	84
C/%	12	10	8	6
显气孔率 AP/%, ≤	4.0	4.0	4.0	4.0
体积密度 BD/ g·cm ⁻³ , ≥	2.0	2.92	2.94	2.96
耐压强度 CCS/MPa, ≥	50.0	50.0	50.0	50.0
高温抗折强度 HMOR /MPa, (1450℃, 30min)≥	8.0	8.0	10.0	10.0
主要用途 Application	转炉出钢口 Used for the tapping hole			

钢包用镁碳砖(1)

MgO-C Bricks For Steel Ladle

牌号 Brand	HCLR-MT-8A	HCLR-MT-8B	HCLR-MT-8C	HCLR-MT-10A	HCLR-MT-10B	HCLR-MT-10C
MgO/%,≥	82	82	78	80	78	76
C/%,≥	8	8	8	10	10	10
显气孔率 AP/ %,≤	5	6	7	4	5	6
体积密度 BD/ g/cm ³ ,≥	3.0	2.95	2.95	3.0	2.95	2.95
耐压强度 CCS/ MPa,≥	45	40	35	40	40	35
高温抗折强度 HMOR/MPa(1450°C,30min),≥	6	5	4	8	7	6
主要用途 Application	钢包包壁、包底、渣线工作层 Used for the side wall, bottom, and Slag line of steel ladle					

钢包用镁碳砖(2)

MgO-C Bricks For Steel Ladle

牌号 Brand	HCLR-MT-12A	HCLR-MT-12B	HCLR-MT-12C	HCLR-MT-14A	HCLR-MT-14B	HCLR-MT-14C
MgO/%,≥	78	76	74	78	76	74
C/%,≥	12	12	12	14	14	14
显气孔率AP/ %,≤	4	5	6	4	5	6
体积密度BD/ g/cm ³ ,≥	2.98	2.96	2.95	2.98	2.96	2.95
耐压强度CCS/ MPa,≥	40	40	35	40	40	35
高温抗折强度 HMOR/MPa(1450°C,30min),≥	8	7	6	12	10	8
主要用途 Application	钢包渣线部位 Slag line of ladle					

钢包用镁铝碳砖

MgO-Al₂O₃-C Bricks for Steel Ladle

牌号 Brand	HCLR-MLT-50	HCLR-MLT-60	HCLR-MLT-65	HCLR-MLT-70	HCLR-MLT-75	HCLR-MLT-80
MgO/ %	≥50	≥60	≥65	≥70	≥75	≥80
Al ₂ O ₃ / %	≥30	≥20	≥15	≥10	≥8	≥4
C/ %	≥8	≥8	≥8	≥8	≥8	≥8
显气孔率 AP/ %	≤8	≤8	≤8	≤8	≤8	≤8
体积密度 BD/ g.cm ⁻³	≥2.85	≥2.90	≥2.90	≥2.90	≥2.90	≥2.95
耐压强度 CCS/ MPa	≥35	≥40	≥40	≥40	≥40	≥45
主要用途 Application	钢包包壁、包底工作层 Used for the sidewall, bottom working lining of steel ladle					

钢包用铝镁碳砖

Al₂O₃-MgO-C Bricks for Steel Ladle

牌号 Brand	HCLR-LMT-60	HCLR-LMT-65A	HCLR-LMT-65B	HCLR-LMT-70A	HCLR-LMT-70B
Al ₂ O ₃ / %	≥60	≥65	≥65	≥70	≥70
MgO / %	≥16	≥12	≥12	≥4	≥4
C/ %	≥8	≥8	≥8	≥8	≥8
显气孔率 AP/ %	≤8	≤8	≤8	≤8	≤8
体积密度 BD/ g.cm ⁻³	≥2.90	≥2.95	≥2.90	≥3.00	≥2.95
耐压强度 CCS/ MPa	≥40	≥40	≥40	≥40	≥40
主要用途 Application	钢包包壁、包底工作层 The sidewall and bottom working lining of steel ladle				

低碳镁碳砖

Low Carbon MgO-C Bricks

牌号 Brand	HCLR-MT-5A	HCLR-MT-5B	HCLR-MT-5C	HCLR-MT-3A	HCLR-MT-3B	HCLR-MT-3C
MgO/%, ≥	85	84	82	86	85	83
C/%, ≤	5	5	5	3	3	3
显气孔率 AP/ %, ≤	5	6	7	8	9	10
体积密度 BD/ g/cm ³ , ≥	3.0	2.98	2.96	3.03	3.0	2.98
耐压强度 CCS/ MPa, ≥	40	40	35	40	40	35
高温抗折强度 HMOR/MPa(1450°C, 30min), ≥	8	7	6	8	7	6
主要用途 Application	无碳、低碳钢包渣线部位 Used at slag line and sidewall of clean steel refining ladle					

低碳刚玉尖晶石砖

Low Carbon Al₂O₃-Spinel Bricks

牌号 Brand	HCLR-LMT-80	HCLR-LMT-85	HCLR-LMT-88
Al ₂ O ₃ / %	≥80	≥85	≥88
MgO / %	≥5	≥4	≥3
C / %	≤5	≤5	≤5
显气孔率 AP/ %	≤8	≤8	≤8
体积密度 BD/ g.cm ⁻³	≥2.90	≥2.95	≥3.0
耐压强度 CCS/ MPa	≥35	≥40	≥45
主要用途 Application	钢包包壁、包底工作层，用于冶炼低碳钢 Used for the sidewall and bottom working lining of ladle for low carbon steel production		



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