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25

REFRACTORY SOLUTION FOR CEMENT INDUSTRY

系统解决方案

SYSTEM SOLUTION

- 作为专业的系统解决方案供应商，淄博隆科特新材料有限公司在不断提高自身产品优势的同时，将更多的关注客户的需求，从专业的角度，为客户量身定制解决方案。隆科特系统解决方案包括设计、研发、制造、配套、安装、维护等，在帮助客户实现"设计个性化、产品专业化、服务配套化"的目标的同时，也为客户创造了"节能、减排、提质、增效"等商业价值、环境价值和社会价值。

主要特点

- **节能**
导热系数低，筒体温度降低，该方案可减少窑体散热损失37.91kJ/kg-Cl,节约标煤2100余吨年。
- **环保**
无铬化，消除铬污染；减少氮氧化物和二氧化碳的排放。
- **长寿命**
热震稳定性、耐碱抗侵蚀性提高，延长窑体及传动系统的使用寿命，大修周期达到1年以上。
- **轻量化**
体积密度降低，可减轻窑体负荷约50吨，对窑体保护和节电起到很好的作用。

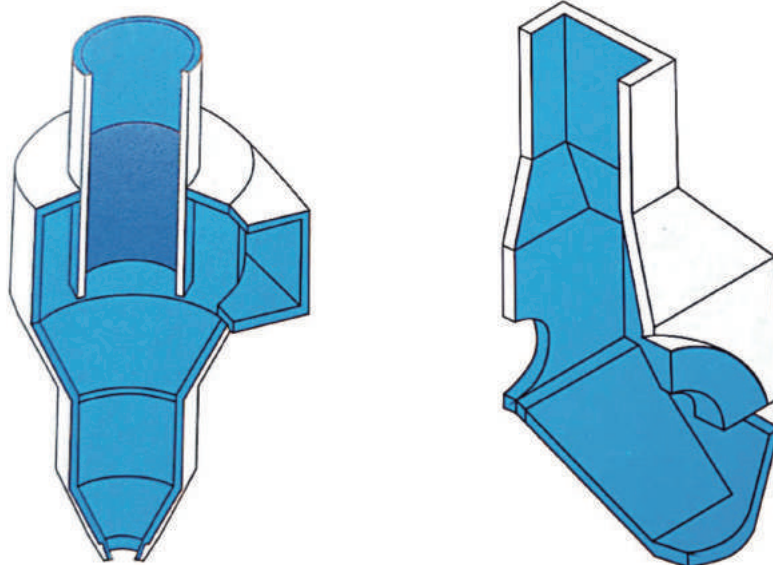
- As a professional system solution supplier, Zibo Long Keter New Materials Co.,Ltd will pay more attention to the customer's needs while continuously boosts its product advantage, carrying out measured and detailed solutions from professional perspective. The refractory system solutions of Longketer design, research&development manufacturing, supporting, installation and repair&maintenance. This system not only helps our customers to realize the aim of design individualized, product specialized and service tailored, but also creates commercial, environmental, and social values of energy-saving, a rejection-reducing, quality

CHARACTERISTICS

- **Energy saving:**
Low thermal conductivity, reduce temperature of outside shell and heat loss 37.91kJ/kg-cl, save 2100 standard coal per year.
- **Eco-friendly:**
Chrome-free, reduce the emission of oxynitride and carbon dioxide.
- **Long service life:**
Excellent thermal shock and alkali resistant extend life of kiln and drive system, the overhaul period reach more than 1 year.
- **Light weight:**
Lower bulk density can reduce the load of the kiln 50t, so that protect the kiln shell and save electricity.

预热器旋风筒/烟室/上升管道/下料斜坡

CYCLONE PREHEATER/SMOKE CHAMBER/RISER DUCT/FEED RAMP



• 主要问题

- 1) 预热器系统内有害杂质碱、氯、硫的循环富集作用, 造成工作层碱裂破坏。
- 2) 预热器旋风筒, 烟室, 上升管道、下料斜坡等部位易产生结皮堵塞, 导致物料运行受阻, 影响生产正常进行。

Main Problems

- 1) The alkalis, chlorine and sulfur etc in the preheater system often cause alkali cracking to work lining.
- 2) Coating/build up is formed in cyclone preheater, smoke chamber, riser duct and feed ramp, which can cause considerable delays of clinker production.

• 解决方案 Our Solution

熟料日产量 DAILY OUTPUT		700-2000T/D	2500-5000T/D	5500-10000T/D
预热器 Preheater	品名 Product	高强耐碱耐火浇注料 High Strength Alkali Resistant Castable		
	牌号 Item Code	LKT-13NL	LKT-13NL, LKT-14N	LKT-13NL, LKT-14N
分解炉 Calciner	品名 Product	高铝质高强系列耐火浇注料 High Alumina High Strength Refractory Castable		
	牌号 Item Code	LKTG-14	LKTG-115	LKTG-16 LKTG-16K
烟室 Smoke Chamber	品名 Product	碳化硅抗结皮耐火浇注料 SiC Coating Resistant Castable		
上升烟道 Riser Duct	牌号 Item Code	LKTGC-13	LKTSIC-60	
下料斜坡 Feed Ramp				



高强耐碱耐火浇注料

HIGH STRENGTH ALKAL RESISTANT CASTABLE

项目 ITEM		牌号 CODE NAME	
		LKT-13NL	LKT-14N
最高使用温度 MAXIMUM WORKING TEMPERATURE		1300℃	1350℃
化学成分 CHEMICAL COMPOSITION	$Al_2O_3 \leq$	48%	48%
	$SiO_2 \geq$	50%	45%
体积密度 BULK DENSITY $\geq$	110℃Cx24h	2.10g/cm ³	2.20g/cm ³
常温抗折强度 MODULUS OF RUPUTURE $\geq$	110℃Cx24h	7MPa	8MPa
	1100℃Cx3h	7MPa	8MPa
常温耐压强度 CRUSHING STRENGTH $\geq$	110℃Cx24h	70MPa	80MPa
	1100℃Cx3h	70MPa	80MPa
烧后线变化率 REHEAT TEST PERMANENT LINEAR CHANGE	1100℃Cx3h	-0.1%~-0.5%	-0.1%~-0.3%
导热系数 THERMAL CONDUCTIVITY $\geq$	350℃	0.87w/m.k	0.90w/m.k
耐碱性试验 SA/T808-1987 ALKALI RESISTANT TEST		一级 FIRST GRADE	一级 FIRST GRADE
施工参考用水量 WATER ADDITION FOR CASTING		6.5%~7.5%	6%~7%
施工方法 METHOD OF INSTALLATION		振动浇注 VIBRATION	振动浇注 VIBRATION



高铝质高强系列耐火浇注料

HIGH ALUMINA HIGH STRENGTH REFRACTORY CASTABLE

项目 ITEM		牌号 CODE NAME			
		LKTG-14	LKTG-15	LKTG-16	LKTG-16K
最高使用温度 MAXIMUM WORKING TEMPERATURE		1450℃	1500℃	1600℃	1650℃
化学成分 CHEMICAL COMPOSITION	Al ₂ O ₃ ≤	65%	72%	75%	75%
	SiO ₂ ≥	25%	20%	20%	20%
体积密度 BULK DENSITY≥	110°Cx24h	2.45g/cm ³	2.55g/cm ³	2.65g/cm ³	2.75g/cm ³
常温抗折强度 MODULUS OF RUPUTURE≥	110°Cx24h	8MPa	10MPa	10MPa	10MPa
	1100°Cx3h	8MPa	12MPa	12MPa	10MPa
常温耐压强度 CRUSHING STRENGTH≥	110°Cx24h	80MPa	80MPa	80MPa	100MPa
	1100°Cx3h	80MPa	100MPa	100MPa	100MPa
加热永久线变化 (1100°Cx3h) REHEAT TEST PERMANENT LINEAR CHANGE(1100°Cx3h)	1100°Cx3h	-0.1%~-0.3%	-0.1%~-0.3%	-0.1%~-0.3%	-0.1%~-0.3%
施工参考用水量 WATER ADDITION FOR CASTING		6%~7.5%	6%~7%	5.5%~6.5%	4.5%~5.5%
施工方法 METHOD OF INSTALLATION		振动浇注 VIBRATION	振动浇注 VIBRATION	振动浇注 VIBRATION	振动浇注 VIBRATION
特点 CHARACTERISTICS		按用户要求添加耐热钢纤维 Adding heat resistant steel fber according to users' requirements			



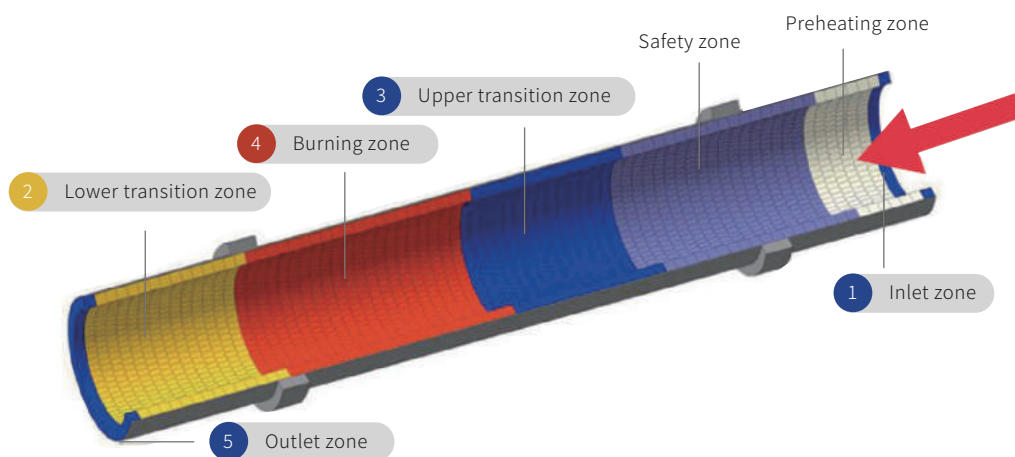
碳化硅 抗结皮耐火浇注料

SIC COATING RESISTANT CASTABLE

项目 ITEM		牌号 CODE NAME	
		LKTGC-13	LKTSiC-60
最高使用温度 MAXIMUM WORKING TEMPERATURE		1300°C	1400°C
化学成分 CHEMICAL COMPOSITION	$Al_2O_3 \leq$	20%~30%	/
	$SiO_2 \geq$	14%~33%	/
	$SiC \geq$	48%	60%
体积密度 BULK DENSITY $\geq$	110°Cx24h	2.30g/cm ³	$\geq 2.40g/cm^3$
常温抗折强度 MODULUS OF RUPUTURE $\geq$	110°Cx24h	10MPa	12MPa
	1100°Cx3h	12MPa	12MPa
常温耐压强度 CRUSHING STRENGTH $\geq$	110°Cx24h	80MPa	100MPa
	1100°Cx3h	100MPa	110MPa
加热永久线变化 REHEAT TEST PERMANENT LINEAR CHANGE	1200°Cx3h	$\pm 0.5\%$	$\pm 0.3\%$
施工参考用水量 WATER ADDITION FOR CASTING		5%~6%	5%~6%
施工方法 METHOD OF INSTALLATION		振动浇注 VIBRATION	振动浇注 VIBRATION
特点 CHARACTERISTICS	1.大幅度降低结皮次数,结皮易于清理 Greatly reduce the frequency of crusting,crusts are easy to be cleaned. 2.耐碱、耐磨、防堵塞 Alkali resistance,abrasion resistance,anti clogging.		

水泥回转窑

CEMENT ROTARY KIIN



• 主要问题

1) 后窑口、前窑口

窑口处窑气温度高,没有稳定的窑皮,熟料的研磨和气流的冲刷都很严重。

2) 预热分解带

来自原、燃料的碱侵蚀。

3) 上、下过渡带

温度变化频繁,窑皮不易挂牢,衬砖遭受破坏力强。

4) 烧成带

烧成温度高,物理、化学、机械、热应力冲击大。

Main Problems

1) Inlet&Outlet Zone

Abrasion, thermal shock, impact and chemical attack resulted from clinker, fuel gas.

2) Preheating&Decomposition Zone

Alkali erosion resulted from raw material and fuel.

3) Upper&Lower Transition Zone

Temperature changes frequently and not easy to build kiln coating. The brick lining is sustained destructive force.

4) Burning Zone

The burning zone is the location for the most severe operating conditions. Those conditions are the result of chemical, physical, mechanical and thermal factors which create an extreme environment.

熟料日产量 DAILY OUTPUT		700-2000T/D	2500-5000T/D	5500-10000T/D
后窑口 Inlet Zone	品名 Product	高强防爆浇注料 High Strength Burst Resistant Refractory Castable		
	牌号 Item Code	LKTG-16K		
预热带 Preheating&Decomposition Zone	品名 Product	抗剥落高铝砖 Spalling Resistant Alurina Brick / 低导热耐碱砖 Low Thermal Alkali Resistant Brick		
	牌号 Item Code	LKTGKBL-70/ LKTKBL-70		
上过渡带 Upper Transition Zone	品名 Product	硅莫砖 Siliceous Mullite Brick / 镁铝尖晶石砖 Mognesia Alumina Spinel Brick		
	牌号 Item Code	LKTGM1680 / LKTGM1650 / LKTGM1600 / LKTGM1550 / LKTMLJ-80 LKTMLJ-85 / LKTMLJ-90		
烧成带 Burning Zone	品名 Product	镁铁铝尖晶石砖 Mognesia Ferro Spinel Brick		
	牌号 Item Code	LKTMTL-1 / LKTMTL-2		
下过渡带 Lower Transition Zone	品名 Product	硅莫砖 Siliceous Mullite Brick / 镁铝尖晶石砖 Mognesia Alumina Spinel Brick		
	牌号 Item Code	LKTGM1680 / LKTGM1650 / LKTGM1600 / LKTGM1550 / LKTMLJ-80 LKTMLJ-85 / LKTMLJ-90		
前窑口 Outlet Zone	品名 Product	莫来石耐火浇注料 Mullite Castable / 莫来石高强耐火浇注料 High Intensity Mullite Castable 莫来石高强耐磨耐火浇注料 High Intensity Wear-Resisting Mullite Castable		
	牌号 Item Code	LKTHN-20 / LKTHN-20G / LKTHN-20P		



抗剥落高铝砖

SPALING RESISTANT ALUMINA BRICK

指标 SPECIFICATIONS		牌号 CODE NAME	
		LKTGKBL-70	LKTKBL-70
Al ₂ O ₃ ≥	%	70	70
ZrO ₂ ≥	%	6.0	/
Fe ₂ O ₃ ≤	%	1.5	1.5
体积密度 BULK DENSITY≥	g/cm ³	2.55	2.55
显气孔率 APPARENT POROSITY≥	%	22	20
0.2MPa荷重软化温度T0.6≥ REFRACTORINESS UNDER 0.2Mpa LOAD TO.6	°C	1470	1470
常温耐压强度 CRUSHING STRENGTH≥	MPa	60	60
热震稳定性(1100°C,风冷)≥ THERMAL SHOCK(1100°C, IN AIR)	Times	20	15
特点 CHARACTERISTICS	热稳定性好、抗落性强、荷重软化温度高、机械强度高。 With the features of good stability of heat and shock, strong anti-spalling, high softening temperaturell under load and high mechanical strength.		



低导热耐碱砖

LOW THERMAL ALKALI RESISTANT BRICK

指标 SPECIFICATIONS		牌号 CODE NAME
		LKTDDR-30
Al ₂ O ₃ ≥	%	30-35
SiO ₂ ≥	%	62-64
Fe ₂ O ₃ ≤	%	2.0
体积密度 BULK DENSITY≥	g/cm ³	2.15
显气孔率 APPARENT POROSITY≥	%	16
0.2MPa荷重软化温度T _{0.6} ≥ REFRACTORINESS UNDER 0.2Mpa LOAD T _{0.6}	°C	1310
常温耐压强度 CRUSHING STRENGTH≥	MPa	45
热震稳定性(1100°C,风冷)≥ THERMAL SHOCK(1100°C, IN AIR)	Times	1.5
耐碱性 ALKALI RESISTANCE	一级 FIRST GRADE	



硅莫砖

ALUMINA SILICON CARBIDE BRICK

指标 SPECIFICATIONS		牌号 CODE NAME			
		LKTGM1680	LKTGM1650	LKTGM1600	LKTGM1550
Al ₂ O ₃ ≥	%	63	65	63	60
耐火温度 REFRACTORINESS ≥	°C	1680	1650	1600	1550
显气孔率 APPARENT POROSITY≥	%	17	17	17	19
0.2MPa荷重软化温度T0.6≥ REFRACTORINESS UNDER 0.2Mpa LOAD T0.6	°C	1680	1650	1600	1550
常温耐压强度 CRUSHING STRENGTH≥	MPa	85	85	90	90
热震稳定性(1100°C,风冷)≥ THERMAL SHOCK(1100°C, IN AIR)	Times	10	10	10	12
特点 CHARACTERISTICS	产品结构致密、耐磨性好、荷重软化温度高温性能好、热震稳定性优良。 With the features of compact structure, good abrasion resistance, high softening temperature under load, good high temperature performance, excellent thermal shock resistance.				



镁铝尖晶石砖

MAGNESIA ALUMINA SPINEL BRICK

指标 SPECIFICATIONS		牌号 CODE NAME		
		LKTMLJ-80	LKTMLJ-85	LKTMLJ-90
MgO	%	80±2.5	85±2.5	87±2.5
Al ₂ O ₃ ≥	%	11	9	5
体积密度 BULK DENSITY≥	g/cm ³	2.85	2.85	2.85
显气孔率 APPARENT POROSITY≤	%	19	19	19
0.2MPa荷重软化温度TO.6≥ REFRACTORINESS UNDER 0.2Mpa LOAD TO.6	°C	1650	1650	1650
常温耐压强度 CRUSHING STRENGTH≥	MPa	40	40	40
热震稳定性(1100°C,风冷)≥ THERMAL SHOCK(1100°C, IN AIR)	Times	10	8	8
特点 CHARACTERISTICS	具有抗高温化学侵蚀性强、耐碱性优良、荷重软化温度高、热震稳定性好、抗冲刷性强、强度高等性能。 With the features of hiah temperature chemical corrosion resistance,aood alkali resistance,high softening ltemperature under load, good thermal shock resistance, high abrasion resistance and high strength.			



镁铁铝尖晶石砖

MAGNESIA FERRO SPINEL BRICK

指标 SPECIFICATIONS		牌号 CODE NAME	
		LKTMTL-1	LKTMTL-2
MgO $\geq$	%	85	82
Al ₂ O ₃ $\geq$	%	4.0	10.0
Fe ₂ O ₃ $\leq$	%	4.0	2~4.0
Cr ₂ O ₃ $\leq$	%	0.5	0.5
体积密度 BULK DENSITY $\geq$	g/cm ³	2.9	2.9
显气孔率 APPARENT POROSITY $\geq$	%	18	18
0.2MPa荷重软化温度TO.6 $\geq$ REFRACTORINESS UNDER 0.2Mpa LOAD TO.6	°C	1650	1680
常温耐压强度 CRUSHING STRENGTH $\geq$	MPa	≥ 45	≥ 55
热震稳定性(1100°C,风冷) $\geq$ THERMAL SHOCK(1100°C, IN AIR)	Times	6	6
导热系数(平均700 $\pm$ 25°C) THERMAL CONDUCTIVITY (AVERAGE700 $\pm$ 25°C)	W/(M.K)	3.5	3.8
特点 CHARACTERISTICS	1.挂窑皮性能好,窑皮形成迅速、均匀且稳定,停窑时不易脱落; With rapid formation of kiln coating,excellent performance and stable coating,without peeling off when kiln is shut down 2.抗侵蚀性好、没有碱裂、疏松现象; With good corrosion resistance,without alkali crack and loose phenomenon 3.导热系数低,回转窑壳体温度在230-280 °C.节能效果好。 With low thermal conductivity,energy saving is significant under the temperature of 230-280 C for the rotary kiln shell.		



莫来石耐火浇注料

MULLITE CASTABLE

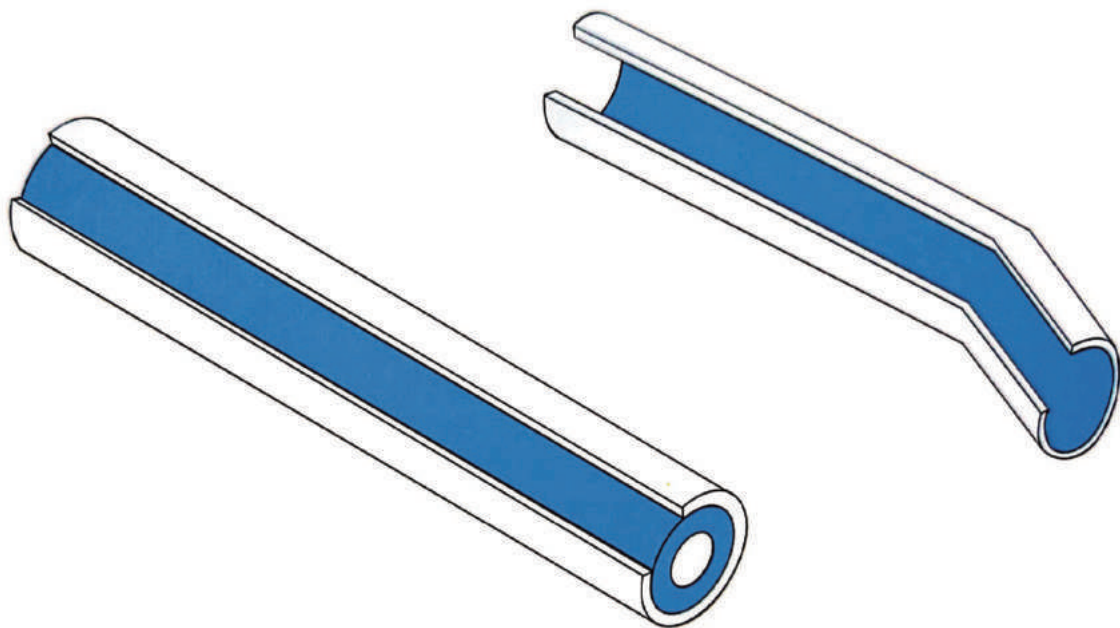
莫来石高强耐火浇注料/莫来石高强耐磨耐火浇注料

HIGH INTENSITY MULLITE CASTABLE/HIGH INTENSITY WEAR-RESISTING MULLITE CASTABLE

项目 ITEM		牌号 CODE NAME		
		LKTHN-20	LKTHN-20G	LKTHN-20P
最高使用温度 MAXIMUM WORKING TEMPERATURE		1550°C	1600°C	1650°C
化学成分 CHEMICAL COMPOSITION	$Al_2O_3 \geq$	60%	65%	70%
	$(Al_2O_3 + SiO_2) \geq$	90%	85%	/
	$(Al_2O_3 + SiC + SiO_2) \geq$	/	/	90
体积密度 BULK DENSITY $\geq$	110°Cx24h	2.50g/cm ³	2.60g/cm ³	2.70g/cm ³
常温抗折强度 $\geq$ MODULUS OF RUPTURE	110 °Cx24h	10MPa	11MPa	11MPa
	1100°Cx3h	11MPa	12MPa	12MPa
	1500°Cx3h	/	12MPa	12MPa
常温耐压强度 $\geq$ CRUSHING STRENGTH	110°Cx24h	100MPa	110MPa	110MPa
	1100°Cx3h	110MPa	120MPa	120MPa
	1500°Cx3h	/	130MPa	130MPa
加热永久线变化(1100°Cx3h) REHEAT TEST PERMANENT LINEAR CHANGE(1100°Cx3h)	$\leq 1100^\circ C \times 3h$	-0.3%	-0.3%	-0.3%
	$\geq 1100^\circ C \times 3h$	/	-0.5%	-0.5%
施工参考用水量 WATER ADDITION FOR CASTING		6%~7%	5%~6.5%	5%~6%
施工方式 APPLICATION METHOD		振动浇注 VIBRATION	振动浇注 VIBRATION	振动浇注 VIBRATION
特点 CHARACTERISTICS	蠕变低、抗化学侵蚀性强、强度高、耐磨损、热膨胀小、抗热震;养护、脱模、烘烤时间短、不易爆裂、按用户要求添加耐热钢纤维。 With the features of low creep, strong chemical erosion resistance, high strength, abrasion resistance, small thermal expansion, thermal shock resistance, short time of curing, mold releasing and baking, not easy to burst, to add heat resistant steel fiber according to users' requirements.			

三次风管/喷煤管

TERTIARY AIR DUCT, BURNER PIPE



• 主要问题

高速含水泥熟料颗粒气流的冲刷、高温、碱性物质的侵蚀等造成三次风管、喷煤管等部位使用的耐火材料寿命短,从而影响水泥窑的正常运转。

Main Problems

Abrasion from clinker particles flowing at high speed, chemical attack from aggressive volatile salts and high temperatures lead to short service life of refractory and cause delay in running of rotary kiln.

• 解决方案 Our Solution

熟料日产量 DAILY OUTPUT		700-2000T/D	2500-5000T/D	5500-10000T/D
三次风管 Tertiary Air Duct	品名 Product	刚玉莫来石浇注料 Corundum mullite castable		
	牌号 Item Code	LKTG-17K		
喷煤管 Burner Pipe	品名 Product	喷煤管专用耐火浇注料 Castables for Burner Pipe		
	牌号 Item Code	LKTLN-90K / LKTLN-90P		



刚玉莫来石浇注料

CORUNDUM MULLITE CASTABLE

喷煤管专用耐火浇注料

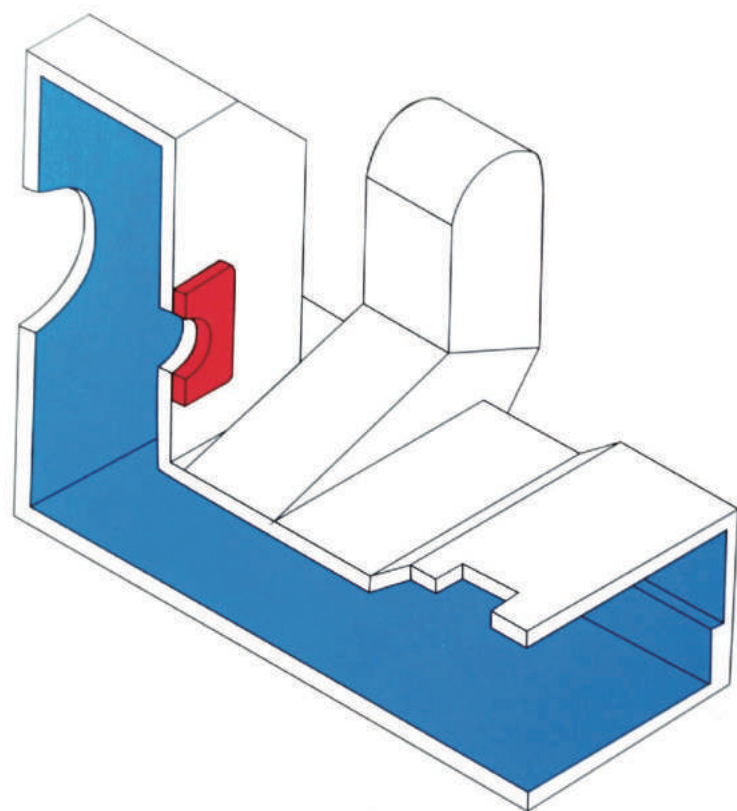
CASTABLE FOR BURNER PIPE



项目 ITEM		牌号 CODE NAME		
		LKTG-17K	LKTLN-90K	LKTLN-90P
最高使用温度 MAXIMUM WORKING TEMPERATURE		1750℃	1750℃	1750℃
化学成分 CHEMICAL COMPOSITION	$(\text{Al}_2\text{O}_3+\text{SiO}_2)\geq$	75%	90%	90%
	$(\text{Al}_2\text{O}_3+\text{SiC}+\text{SiO}_2)\geq$	90%	/	/
耐磨性 $\leq$ ABRASION RESISTANCE	CM^3	/	6	6
体积密度 $\geq$ BULK DENSITY	110℃Cx24h	2.7g/cm ³	2.80g/cm ³	2.80g/cm ³
常温抗折强度 $\geq$ MODULUS OF RUPUTURE	110 °Cx24h	9MPa	9MPa	9MPa
	1100℃Cx3h	10MPa	10MPa	10MPa
	1500℃Cx3h	12MPa	12MPa	12MPa
常温耐压强度 $\geq$ CRUSHING STRENGTH	110℃Cx24h	100MPa	100MPa	100MPa
	1100℃Cx3h	110MPa	110MPa	110MPa
	1500℃Cx3h	120MPa	120MPa	120MPa
加热永久线变化(1100℃Cx3h) REHEAT TEST PERMANENT LINEAR CHANGE(1100℃Cx3h)	1100℃Cx3h	±0.1%	±0.1%	±0.1%
	1500℃Cx3h	±0.3%	±0.3%	±0.3%
施工参考用水量 WATER ADDITION FOR CASTING		5%~6%	5%~6%	5%~6%
施工方式 APPLICATION METHOD		振动浇注 VIBRATION	振动浇注 VIBRATION	振动浇注 VIBRATION
特点 CHARACTERISTICS	易施工、耐热震、寿命长 Ease of application,Good thermal shock resistance, Long service life.	热震稳定性好、耐碱性好、易施工、流动性好、烘烤简易、寿命长 Good thermal shock stasility, Good alkali-resistance, Easy application,good fuidity,Easy to be baked, long service life	易施工、耐热震、养护时间短 Coal spraying duct,Easy application, Thermal shock resistance, Short time of curing.	

窑门罩/冷却机

KILN HOOD AND COOLER



• 主要问题

高温含尘烟气的冲刷及侵蚀，高温熟料的磨蚀以及剧烈的温度变化和机械冲击等导致窑门罩及冷却机系统传统耐火材料使用寿命短。

Main Problems

Abrasion,thermal shock,impact and chemical attack lead to short service life of the traditional refractory castables used in the kiln hood and cooler system.

• 解决方案 Our Solution

熟料日产量 DAILY OUTPUT		700-2000T/D	2500-5000T/D	5500-10000T/D
窑门罩 Kiln Hood	品名 Product	高铝质高强耐火浇注料 HIGH ALUMINA HIGH STRENGTH REFRACTORY CASTABLE		
	牌号 Item Code	LKTG-14 / LKTG-15 / LKTG-16 / LKTG-16K		
冷却机 Cooler	品名 Product	高铝质高强耐火浇注料 HIGH ALUMINA HIGH STRENGTH REFRACTORY CASTABLE		
	牌号 Item Code	LKTG-14 / LKTG-15 / LKTG-16 / LKTG-16K		

1 窑衬砌筑前回转窑的准备工作

Rotary kiln shell should be inspected before brick installation.

- A 必须检查铆接处及焊缝,必要时补焊或打磨。
Inspect the rivet joint and weld seam, welding repair or buffing if necessary.
- B 窑体必须保持清洁干燥。必须排尽喷砂等松散颗粒。
锈蚀的窑体部分必须打磨干净并烘干。
Keep the rotary kiln neat and dry. Exclude the sand blast, etc. Buff and bake. The rusting area of the rotary kiln, if any.
- C 挡砖圈必须与窑轴垂直,必要时加以调整。
Inlet end ring should be perpendicular to the axis of kiln, adjusting if necessary.
- D 砌砖前所有机械维修工作必须完成。
All mechanical repairing work must be done before bricking.

2 窑衬的砌筑

Installation of rotary lining

- A 砌筑必须遵守安全规程。
Abide by the safety regulations while installation.
- B 选择的砌筑方法必须保证所砌的砖紧贴筒体,以免其后发生松弛或扭曲。
Bricks should be firmly seated on the kiln shell to avoid loose or distortion.
- C 开始砌筑前,先按窑的中心线在窑体钢板上划好砌砖的基准线,使砖衬对准窑轴。
The brick courses need to be referenced on a regular basis to insure the alignment is perpendicular to the axis of the kiln and ensure the rings are straight.
- D 按目前的砌筑工艺,耐火砖是环砌的。在规整的窑筒内,正确砌筑的砖衬,径向联结轴线相交于窑的中心点。
The current universal installation method is to intersect at the kiln center by radial installation.
- E 采用火泥的砌筑时,火泥应均匀地散布在单砖上,使缝的最大厚度为1~1.5mm。碱性砖由于膨胀性大,每圈砖要设约相当于砖长1%的膨胀缝,可插入纸板来补偿。轴向缝不需额外的膨胀缝。
Coat mortar equably on each brick and control the joint between bricks within 1-1.5mm. Each ring of alkali brick needs to be left with expansion joint equal to 1 percent of the length of brick. The joint could be filled with cardboard plates. Axial slot needn't to be left with expansion joint.

3 砖环锁缝

Inserted joint between bricks

必须用几块正常砖和锁砖来适当组合进行锁缝,碱性砖两砖间的缝内可采用钢板,每条缝最多允许用一块钢板,非碱性砖因铁与氧化铝将反应形成低熔点化合物,故不推荐用钢板锁缝,只有使用加工的砖。
Locking brick must be installed in distance. Insert only one steel plate per joint between alkali bricks. Steel plate is not allowed to be inserted to the joint between non-alkali bricks due to the low melting compound reacted from Fe_2O_3 and Al_2O_3 .

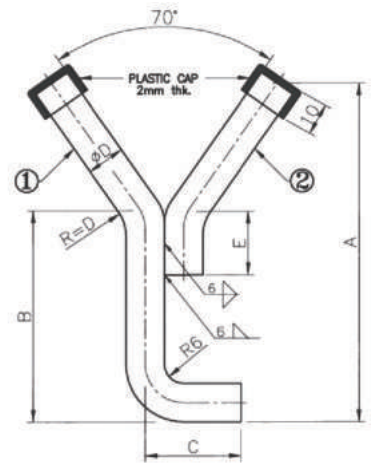
4 新旧砖衬的结合

The transition of the new and old refractory bricks

新旧砖衬必须结合紧凑,因旧砖衬的结合面是不均匀的,这就必须用加工砖,加工砖长度不应小于80mm,以保证从新村与旧衬之间坚实稳定地过渡。
Combine the surface of the new and old bricks tightly. The machining bricks (length no less than 80mm) may be used for transition steadily in the installation.

水泥窑用锚固件

ROTARY KILN STEEL ANCHOR "Y" TYPE ANCHOR



• 使用部位

除窑口、喷煤管等特殊部位外,全线配套使用。

材质

AISI GRADE 310
CR25 NI20

APPLICATION

General Purpose for Rotary Kiln Except Inlet&Outlet Zone,Burner Pipe and other special parts.

MATERIAL

AISI GRADE 310
CR25 NI20r special parts.

锚固件尺寸 DIMENSIONS OF "Y" TYPE ANCHORS/MM														
Type	A	B	E	L1	L2	D	R	C	Weight(kg)					
MYA-0/MYQ-0	65	40	20	79	51	12	12	20	0.12					
MYA-1/MYQ-1	100	60		127	68			0.17						
MY-2/MYQ-2	125	75		155	81			0.21						
MY-3/MYQ-3	150	90		182	93			0.24						
MY-4/MYQ-4	175	100	25	210	116			147	30	0.29				
MY-5/MYQ-5	200	120		236	122					0.32				
MY-5-2/MYQ-5	210	125		250	0.34									
MY-5-1/MYQ-5	220	125		250						0.35				
MY-6/MYQ-6	225	125		266							0.37			
MY-6-1/MYQ-6	230	130		271								0.37		
MY-6-2/MYQ-6	240	140		281									0.38	
MY-7/MYQ-7	250	150		291										0.39
MY-8/MYQ-8	275	175		316										
MY-9/MYQ-9	300	200	342	152	16	35	0.78							
MY-10/MYQ-10	325	225	367				0.82							
MY-11/MYQ-11	350	250	392				0.86							
MY-12/MYQ-12	375	255	421	176			16	0.94						
MY-13/MYQ-13	400	280	446					0.98						
MY-14/MYQ-14	425	305	471					1.02						



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