



# 钢铁行业用耐火材料

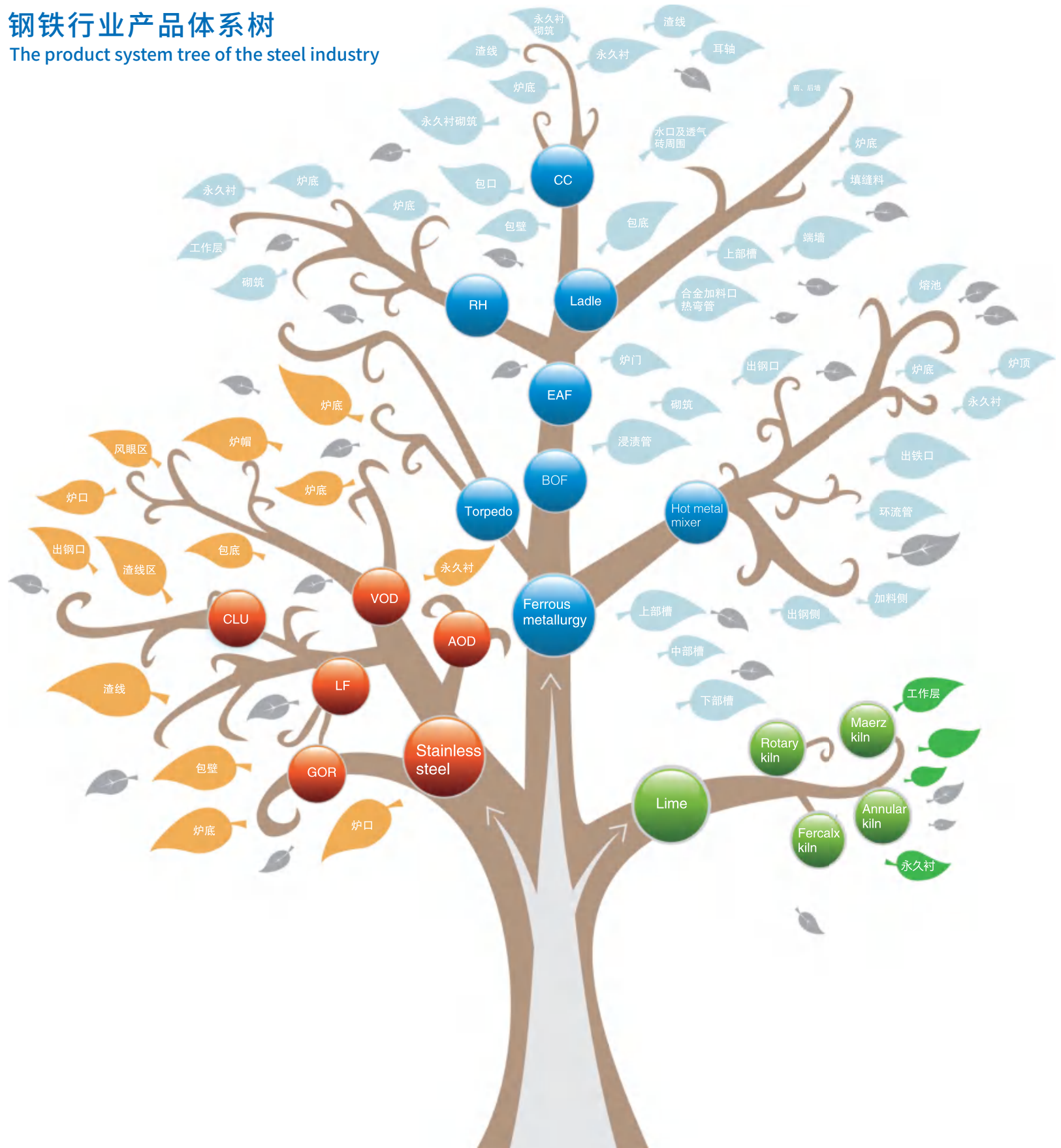
REFRACTORIES FOR THE STEEL INDUSTRY

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# 钢铁行业产品体系树

The product system tree of the steel industry



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## 公司简介 About Us

青花耐火材料股份有限公司,是集科、工、贸一体化的亚太地区大型碱性耐火材料生产企业。耐火材料年生产能力100万吨以上。现有员工2000多人,占地400万平方米,总资产40亿元,年出口创汇6000万美元。青花耐火是目前国际上在优质镁质资源储量、制造装备水平、生产规模、科技研发实力、产品质量及服务水平均处于世界前列的,服务于冶金、建材行业的碱性耐火材料生产企业之一;公司能够根据客户的需求,提供各种冶金行业用碱性耐火材料,并为上百家国内、外冶金行业客户长期稳定供货;全方位的服务能力和较高的使用寿命,为客户创造了巨大的价值,被很多国际大型钢铁集团确定为战略供应商和可信赖的合作伙伴。

## Since 1984

Qinghua Refractories is a leading basic refractory manufacturer in the Asia-Pacific region integrated with researching, manufacturing and trading. Its annual refractory production capacity is over 1 million metric tons and it covers an area of 4 million square meters with 2000 employees. The total assets of the company has exceeded RMB 4.00 billion and annual export volume exceeded 60 million US dollars. We are dedicating ourselves to manufacturing top grade basic refractories for metallurgy and building materials industries based on our high quality magnesite resources, advanced equipments, large manufacturing scale, and strong R&D ability. With comprehensive services and satisfied products performances, we have created tremendous values for our customers and become strategic supplier of many global steel giants.



## Qinghua Group

## 生产基地 Manufacturing facilities



矿产储量约15500万吨  
菱镁石约13200万吨  
镁白云石约2300万吨  
Mineral reserves: 155,000,000 tons  
Magnesite: 132,000,000 tons  
Mangesia dolomite: 23,000,000 tons



金桥镁砖厂  
Jinqiao Complex



自动称量系统  
Automatic weighing cars

生产基地  
Manufacturing facilities



德国强力混砂机  
German Intensive Mixers



德国2000-2500吨液压机  
German 2000-2500 ton Hydraulic Presses

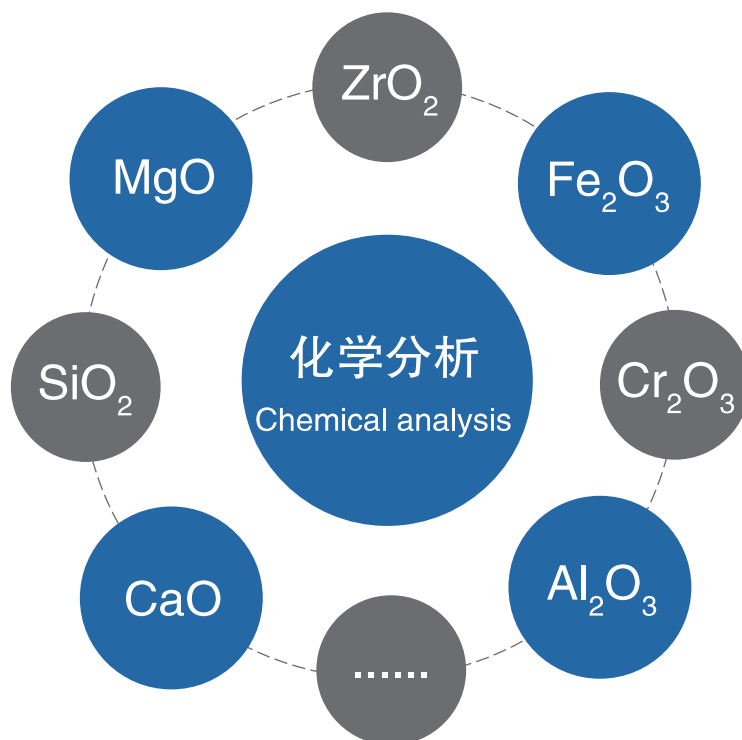
日本2000吨液压机  
Japanese 2000 ton Hydraulic Presses



22条超高温隧道窑  
22 Ultra-high temperature Tunnel Kilns

## 研发中心 R & D center

青花研究院的检验中心可以检验耐火砖、不定形和耐火原材料所要求的各种理化性能。  
 The test center of Qinghua R & D Institute makes all necessary tests on raw materials, refractory bricks and monolithics.



### 物理分析:

体积密度、显气孔率、荷重软化温度、常温耐压强度、高温抗折强度、抗热震性、透气度、加热永久线变化、抗氧化性、导热系数、热膨胀、SEM微观结构分析等。

### Physical analysis:

Bulk Density, Apparent Porosity, Refractoriness under Load, Cold Crushing Strength, Modulus of Rupture at high temperature, Thermal Shock resistance, Air permeability, Linear changes on reheating, Anti-oxidation, Thermal conductivity and Thermal expansion ,micro structure analysis by SEM.....



扫描电子显微镜 SEM  
Scanning Electron Microscope



X-射线荧光光谱仪 XRF  
X-ray Fluorescence Spectrometer



X-射线衍射仪 XRD  
X-Ray Diffractometer

## 体系认证 System Certification



ISO9001:2015 质量管理体系认证证书  
ISO9001:2015 Quality Management System Certificate



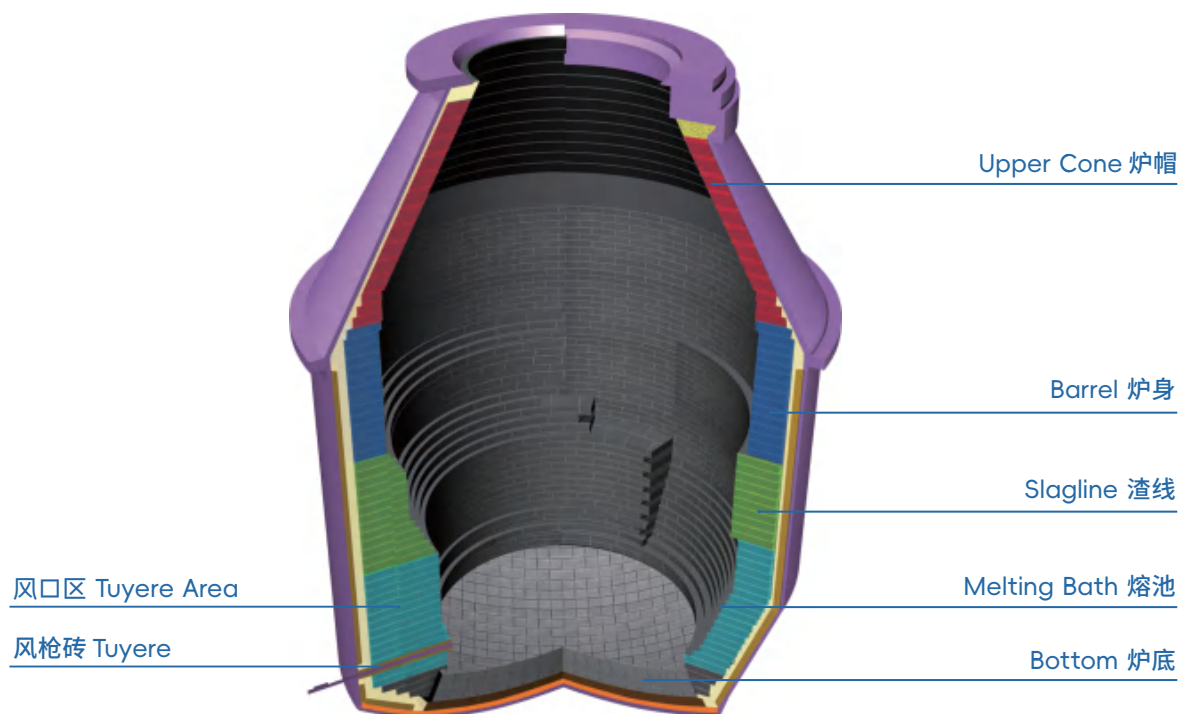
ISO14001:2015 环境管理体系认证证书  
ISO14001:2015 Environmental Management System Certificate



ISO45001:2018 职业健康安全管理体系认证证书  
ISO45001:2018 Occupational Health and Safety Management System Certificate

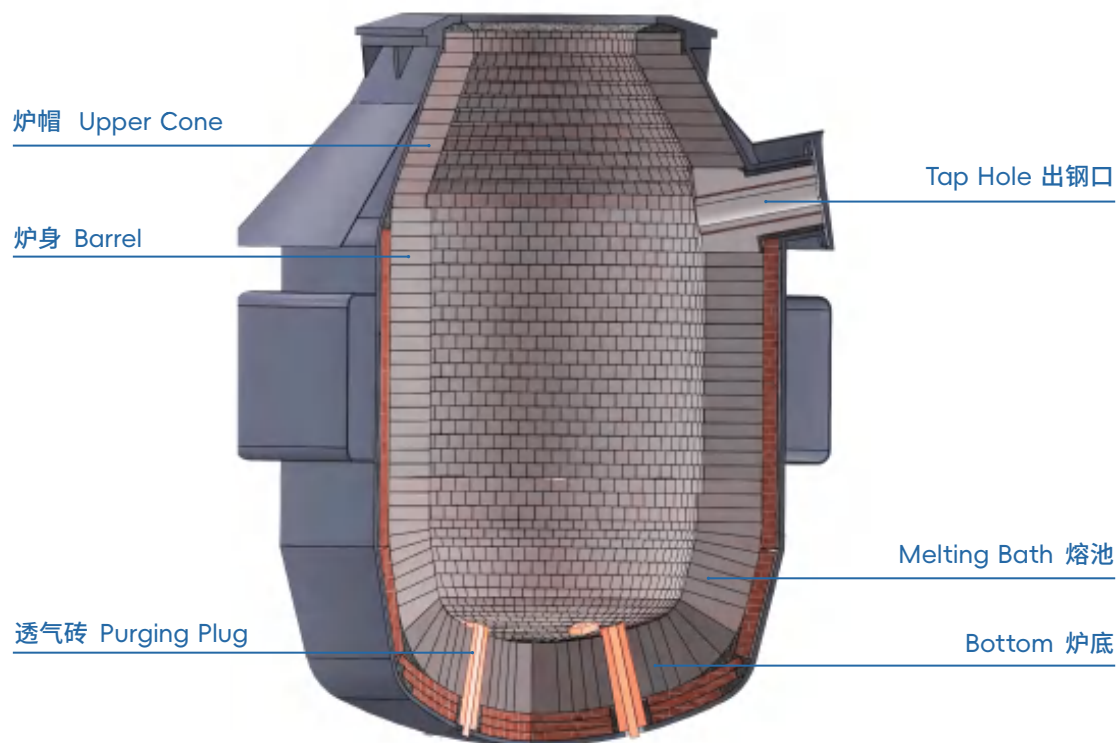
## AOD 炉衬典型耐材配置

AOD typical lining concept



应用部位 Application	推荐产品 Quality Recommendation				
上炉帽 Upper Cone	QMG-20A	QMG-20B	QMG-20C		
炉身 Barrel	QMG-20A	QMG-20B			
渣线 Slagline	QMG-20A	QMG-30A	QMG-30B	QMG-30C	QMG-50A
风枪砖 Tuyere	QMG-30HAF	QMG-30A			
风枪区 Tuyere Zone	QMG-30A	QMG-30B			
熔池区 Melting Bath	QMG-20A	QMG-30A	QMG-30B	QMG-30C	
炉底 Bottom	QMG-20A	QMG-30C			

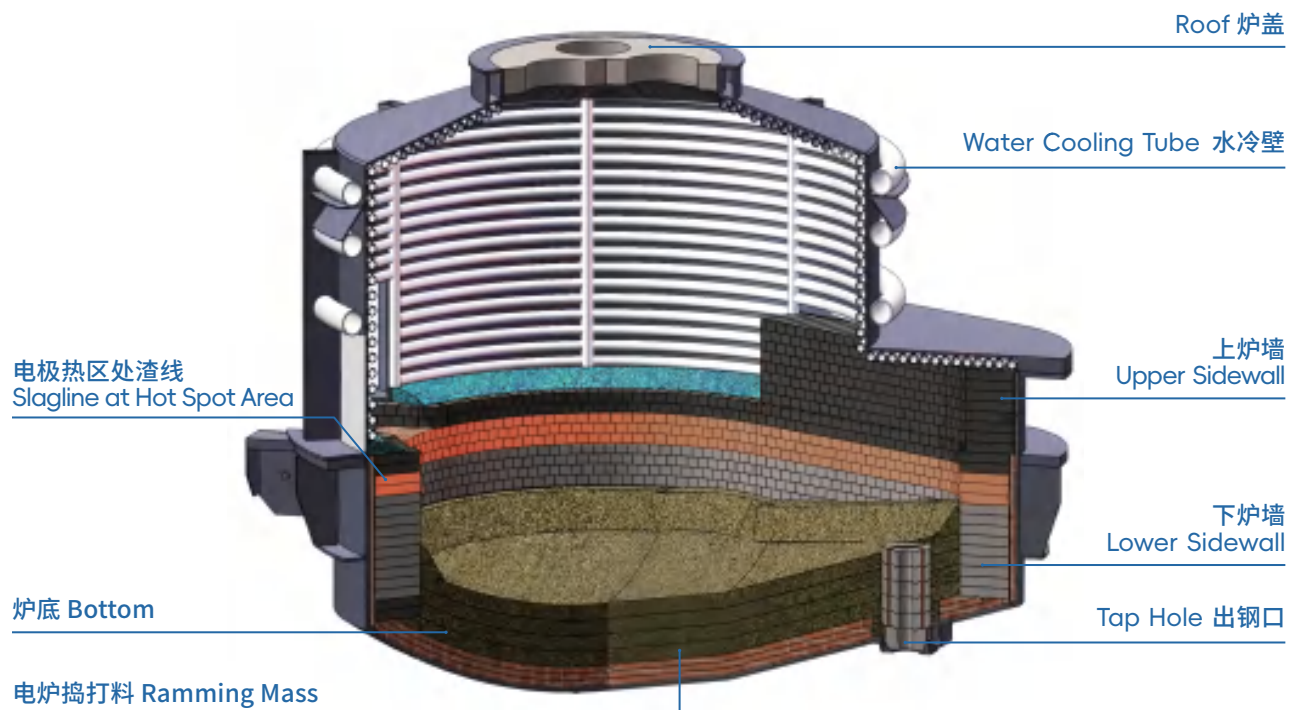
## 转炉耐材典型配置 BOF typical lining concept



应用部位 Application	推荐产品 Quality Recommendation					
出钢口 Tap Hole	QZMT-14AA-C	QZMT-5AA-C				
炉底 Bottom	QZMT-10A-D	QZMT-10B-D	QZMT-14A-D	QZMT-14B-D	QZMT-16A-D	QZMT-16B-D
熔池区 Melting Bath	QZMT-10A-R	QZMT-10B-R	QZMT-14A-R	QZMT-14B-R	QZMT-16A-R	QZMT-16B-R
炉身 Barrel	QZMT-18AA-S	QZMT-18A-S	QZMT-18B-S	QZMT-14AA-S	QZMT-14A-S	QZMT-14B-S
炉帽 Upper Cone	QZMT-14C-M	QZMT-14D-M	QZMT-12C-M	QZMT-12D-M	QZMT-10C-M	QZMT-10D-M

## 电炉耐材典型配置

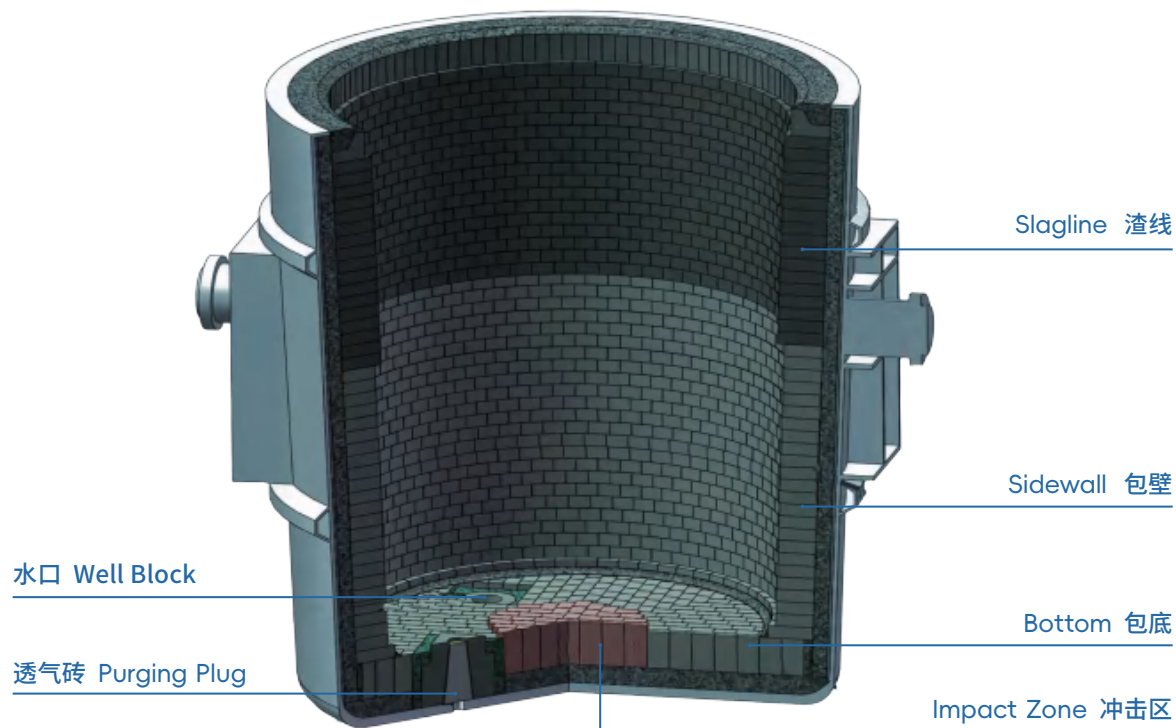
### EAF typical lining concept



应用部位 Application	推荐产品 Quality Recommendation		
出钢口 Tap Hole	QEMT-14AA-C	QEMT-5AA-C	
上炉墙 Upper Sidewall	QEMT-10B-U	QEMT-10C-U	
下炉墙 Lower Sidewall	QEMT-8B-L	QEMT-8C-L	
渣线热点 Slagline/Hot Spot	QEMT-14AA-SH	QEMT-14A-SH	
渣线区 Slagline	QEMT-10AA-S	QEMT-10A-S	QEMT-10B-S

## 不锈钢钢包耐材典型配置

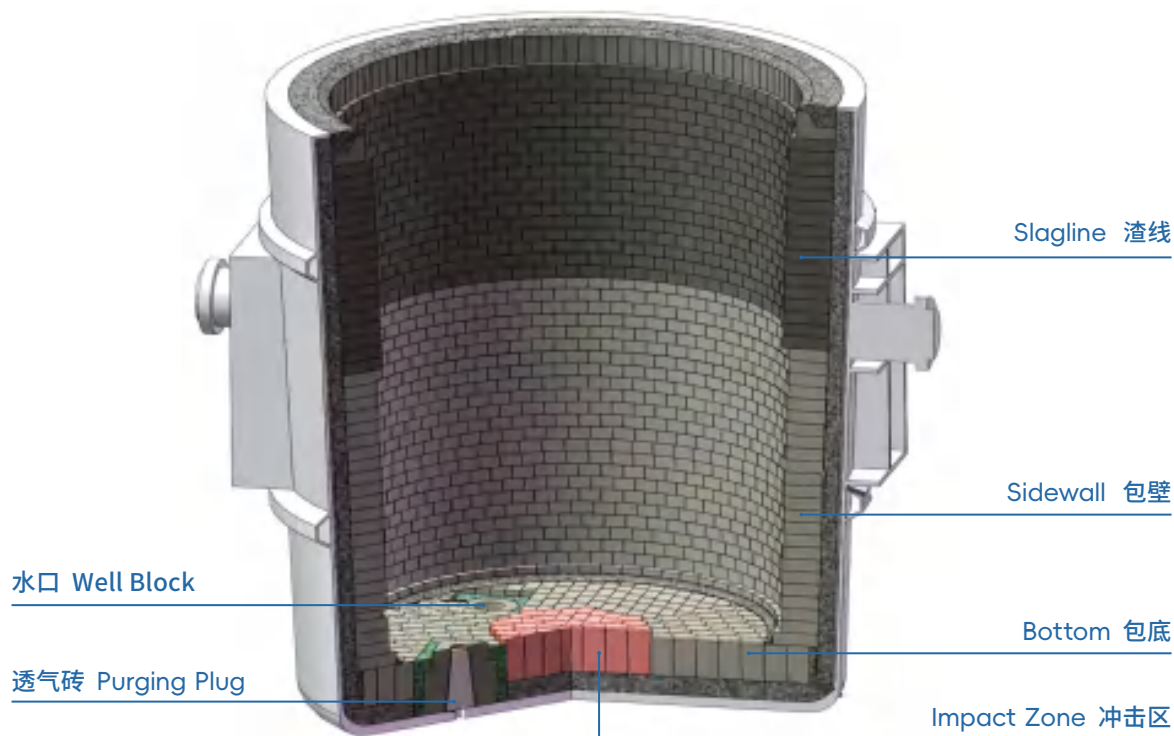
### Ladle (Stainless Steel) typical lining concept



炉衬材质推荐 Lining Recommendation	应用部位 Application	推荐产品 Quality Recommendation					
镁碳砖配置 MgO-C Bricks Lining	渣线 Slagline	QMT-5A	QMT-5B	QMT-5C	QMT-8A	QMT-8B	QMT-8C
	包壁 Sidewall	QMT-5B	QMT-5C	QMT-8B	QMT-8C		
	包底冲击区/非冲击区 Bottom Impact/Non-impact Area	QMT-5B	QMT-5C	QMT-8B	QMT-8C		
白云石砖配置 Dolomite Bricks Lining	渣线 Slagline	QBMG-36HA	QBMG-30A	QBMG-20A			
	包壁 Sidewall	QBMG-30B	QBMG-20A	QMGT-1B	QMGT-5B		
	包底冲击区/非冲击区 Bottom Impact/Non-impact Area	QMGT-1B	QMGT-5B				

## 碳钢钢包耐材典型配置

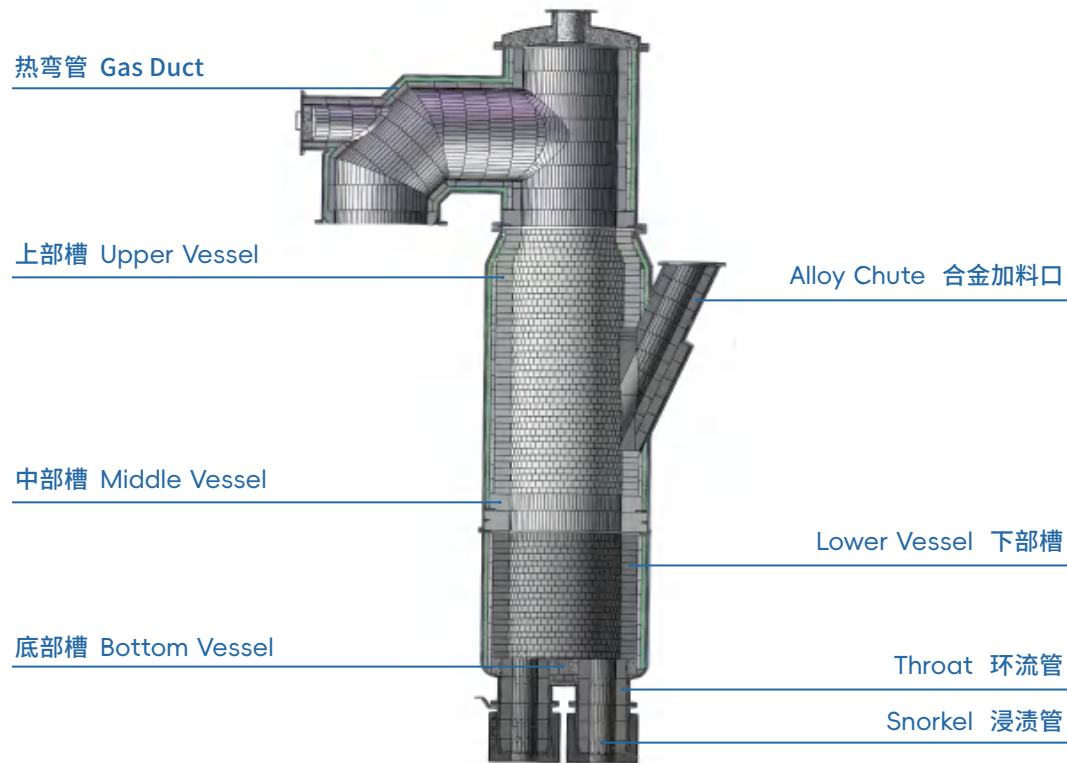
### Ladle (Carbon Steel) typical lining concept



炉衬材质推荐 Lining Recommendation	应用部位 Application	推荐产品 Quality Recommendation		
全镁碳砖配置 MgO-C Bricks Lining	渣线 Slagline	QBMT-14A	QBMT-14B	QBMT-14C
	包壁 Sidewall	QBMT-10A	QBMT-10B	QBMT-10C
	包底冲击区/非冲击区 Bottom Impact/Non-impact Area	QBMT-10A	QBMT-10B	QBMT-10C
包壁包底非镁碳砖配置 Al <sub>2</sub> O <sub>3</sub> -MgO-C Bricks for Bottom	包壁 Sidewall	QBLMT-65	QBLMT-75	QBLMT-25
	包底非冲击区 Bottom Non-impact Zone	QBLMT-65	QBLMT-75	
	包底冲击区 Bottom Impact Zone	QBLMT-70	QBLMT-75	

## RH 炉衬耐材典型配置

### RH degasser typical lining concept



应用部位 Application	推荐产品 Quality Recommendation	
浸渍管 Snorkel	QDMGe-24A	QDMGe-20A
环流管 Throat	QDMGe-24A	QDMGe-20A
底部槽 Bottom Vessel	QDMGe-20A	QDMGe-18A
下部槽 Lower Vessel	QDMGe-20A	QDMGe-18A
中部槽 Middle Vessel	QBDMGe-16A	
上部槽 Upper Vessel	QBDMGe-16A	
合金加料口 Alloy Chute	QDMGe-24A	QDMGe-20A
热弯管 Gas Duct	QZHMGe-8A	QZHMGe-12A

## 转炉产品信息

### BOF Product Information

部位 Application	牌号 Brand	主原料成分 Chemical Compositions of Raw Materials						抗氧化剂 Anti-Oxidants	B.D g/cm <sup>3</sup>	A.P %	C.C.S MPa
		MgO %	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	C %				
出钢口 Tap Hole	QZMT-14AA-C	97.7	0.5	0.1	0.5	1.0	14.5	AL/Si	2.98	3.0	42
	QZMT-5AA-C	97.7	0.5	0.1	0.5	1.0	4.5	AL/Si	3.10	5.0	70
炉底 Bottom	QZMT-10A-D	97.5	0.7	0.1	0.6	0.9	10.5	AL/Si	3.04	3.5	42
	QZMT-10B-D	97.0	0.9	0.2	0.7	1.0	10.5	AL/Si	3.02	3.5	40
	QZMT-14A-D	97.5	0.7	0.1	0.6	0.9	14.5	AL/Si	2.98	3.0	42
	QZMT-14B-D	97.0	0.9	0.2	0.7	1.0	14.5	AL/Si	2.96	3.0	40
	QZMT-16A-D	97.5	0.7	0.1	0.6	0.9	14.5	AL/Si	2.95	3.0	38
	QZMT-16B-D	97.0	0.9	0.2	0.7	1.0	14.5	AL/Si	2.92	3.0	38
熔池区 Melting Bath	QZMT-10A-R	97.5	0.7	0.1	0.6	0.9	10.5	AL/Si	3.04	3.5	42
	QZMT-10B-R	97.0	0.9	0.2	0.7	1.0	10.5	AL/Si	3.02	3.5	40
	QZMT-14A-R	97.5	0.7	0.1	0.6	0.9	14.5	AL/Si	2.98	3.0	42
	QZMT-14B-R	97.0	0.9	0.2	0.7	1.0	14.5	AL/Si	2.96	3.0	40
	QZMT-16A-R	97.5	0.7	0.1	0.6	0.9	14.5	AL/Si	2.95	3.0	38
	QZMT-16B-R	97.0	0.9	0.2	0.7	1.0	14.5	AL/Si	2.92	3.0	38
炉身 Barrel	QZMT-18AA-S	97.7	0.5	0.1	0.5	1.0	18.5	AL/Si	2.92	2.5	38
	QZMT-18A-S	97.5	0.7	0.1	0.6	0.9	18.5	AL/Si	2.92	2.5	38
	QZMT-18B-S	97.0	0.9	0.2	0.7	1.0	18.5	AL/Si	2.90	2.5	36
	QZMT-14AA-S	97.7	0.5	0.1	0.5	1.0	14.5	AL/Si	2.98	3.0	42
	QZMT-14A-S	97.5	0.7	0.1	0.6	0.9	14.5	AL/Si	2.98	3.0	42
	QZMT-14B-S	97.0	0.9	0.2	0.7	1.0	14.5	AL/Si	2.96	3.0	40
炉帽 Upper Cone	QZMT-14C-M	96.5	1.1	0.2	0.7	1.3	14.5	AL/Si	2.95	3.5	38
	QZMT-14D-M	95.8	1.4	0.3	0.8	1.5	14.5	AL/Si	2.90	4.0	35
	QZMT-12C-M	96.5	1.1	0.2	0.7	1.3	12.5	AL/Si	2.97	4.0	40
	QZMT-12D-M	95.8	1.4	0.3	0.8	1.5	12.5	AL/Si	2.94	4.5	35
	QZMT-10C-M	96.5	1.1	0.2	0.7	1.3	10.5	AL/Si	3.02	4.0	40
	QZMT-10D-M	95.8	1.4	0.3	0.8	1.5	10.5	AL/Si	2.97	5.0	38

## AOD产品信息 AOD Product Information

部位 Application	牌号 Brand	MgO %	CaO %	$\Sigma$ (SiO <sub>2</sub> + Fe <sub>2</sub> O <sub>3</sub> + Al <sub>2</sub> O <sub>3</sub> ) %	B.D g/cm <sup>3</sup>	A.P %	C.C.S MPa	R.U.L °C
上炉帽 Upper Cone	QMG-20A	76.2	21.2	≤2.5	3.00	11.5	85	1700
	QMG-20B	74.7	22.2	≤3	2.98	13.5	80	1700
	QMG-20C	72.5	23.2	≤4	2.95	14.0	75	1650
炉身 Barrel	QMG-20A	76.2	21.2	≤2.5	3.00	11.5	85	1700
	QMG-20B	74.7	22.2	≤3	2.98	13.5	80	1700
渣线 Slagline	QMG-20A	76.2	21.2	≤2.5	3.00	11.5	85	1700
	QMG-30A	66.6	31.2	≤2.5	3.02	11.5	90	1700
	QMG-30B	66.3	31.2	≤2.5	3.00	12.0	85	1700
	QMG-30C	65.7	31.5	≤3	2.98	13.0	80	1700
	QMG-50A	46.3	51.5	≤2.5	2.97	12.0	90	1700
风枪砖 Tuyere	QMG-30HAF	64.8	32.5	≤2.5	3.05	11.5	90	1700
	QMG-30A	66.6	31.2	≤2.5	3.02	11.5	90	1700
风枪区 Tuyere Zone	QMG-30A	66.6	31.2	≤2.5	3.02	11.5	90	1700
	QMG-30B	66.3	31.2	≤2.5	3.00	12.0	85	1700
熔池区 Melting Bath	QMG-20A	76.2	21.2	≤2.5	3.00	11.5	85	1700
	QMG-30A	66.6	31.2	≤2.5	3.02	11.5	90	1700
	QMG-30B	66.3	31.2	≤2.5	3.00	12.0	85	1700
	QMG-30C	65.7	31.5	≤3	2.98	13.0	80	1700
炉底 Bottom	QMG-20A	76.2	21.2	≤2.5	3.00	11.5	85	1700
	QMG-30C	65.7	31.5	≤3	2.98	13.0	80	1700

## 碳钢包产品信息 Ladle (Carbon Steel) Product Information

炉衬材质推荐 Lining Recommendation	部位 Application	牌号 Brand	主原料成分 Chemical Compositions of Raw Materials						抗氧化剂 Anti-Oxidants	B.D g/cm <sup>3</sup>	A.P %	C.C.S MPa
			MgO %	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	C %				
全镁碳砖配置 MgO-C Bricks Lining	渣线 Slagline	QBMT-14A	97.5	0.7	0.1	0.6	0.9	14.5	AL/Si	2.98	3.0	42
		QBMT-14B	97.0	0.9	0.2	0.7	1.0	14.5	AL/Si	2.95	3.5	40
		QBMT-14C	96.6	1.1	0.2	0.7	1.2	14.5	AL/Si	2.90	4.0	38
	包壁 Sidewall	QBMT-10A	97.5	0.7	0.1	0.6	0.9	10.5	AL/Si	3.05	3.5	45
		QBMT-10B	97.1	0.9	0.2	0.6	1.0	10.5	AL/Si	3.00	4.0	42
		QBMT-10C	96.6	1.1	0.2	0.7	1.2	10.5	AL/Si	2.95	4.5	42
	包底冲击区 /非冲击区 Bottom Impact /Non-impact Area	QBMT-10A	97.5	0.7	0.1	0.6	0.9	10.5	AL/Si	3.05	3.5	45
		QBMT-10B	97.1	0.9	0.2	0.6	1.0	10.5	AL/Si	3.00	4.0	42
		QBMT-10C	96.6	1.1	0.2	0.7	1.2	10.5	AL/Si	2.95	4.5	42
包壁包底 非镁碳砖配置 Al <sub>2</sub> O <sub>3</sub> -MgO-C Bricks for Bottom	包壁 Sidewall	QBLMT-65	12.8	6.7	67.5	0.9	1.1	8.5	AL/Si	3.13	6.0	70
		QBLMT-75	7.6	2.4	79.4	0.6	0.5	7.0	AL/Si	3.30	6.0	70
		QBLMT-25	63.7	2.8	23.6	0.8	0.8	6.5	AL/Si	3.00	5.5	60
	包底非冲击区 Bottom Non-impact Zone	QBLMT-65	12.8	6.7	67.5	0.9	1.1	8.5	AL/Si	3.13	6.0	70
		QBLMT-75	7.6	2.4	79.4	0.6	0.5	7.0	AL/Si	3.30	6.0	70
	包底冲击区 Bottom Impact Zone	QBLMT-70	11.3	6.5	71.0	1.2	0.5	7.0	AL/Si	3.16	6.5	70
QBLMT-75	7.6	2.4	79.2	0.6	0.5	7.0	AL/Si	3.30	6.0	70		

## 不锈钢钢包产品信息 Ladle (Stainless Steel) Product Information

炉衬材质推荐 Lining Recommendation	部位 Application	牌号 Brand	主原料成分 Chemical Compositions of Raw Materials						抗氧化剂 Anti-Oxidants	B.D g/cm <sup>3</sup>	A.P %	C.C.S MPa	R.U.L °C
			MgO %	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	C %					
镁碳砖配置 MgO-C Bricks Lining	渣线 Slagline	QMT-5A	97.5	0.7	0.1	0.6	0.9	4.5	AL/Si	3.10	5.0	70	-
		QMT-5B	97.0	0.9	0.2	0.7	1.0	4.5	AL/Si	3.05	6.0	60	-
		QMT-5C	96.6	1.1	0.2	0.7	1.2	4.5	AL/Si	3.00	7.0	50	-
		QMT-8A	97.5	0.7	0.1	0.6	0.9	7.5	AL/Si	3.05	4.0	50	-
		QMT-8B	97.1	0.9	0.2	0.6	1.0	7.5	AL/Si	3.02	4.5	48	-
		QMT-8C	96.6	1.1	0.2	0.7	1.2	7.5	AL/Si	2.97	5.0	45	-
	包壁 Sidewall	QMT-5B	97.0	0.9	0.2	0.7	1.0	4.5	AL/Si	3.05	6.0	60	-
		QMT-5C	96.6	1.1	0.2	0.7	1.2	4.5	AL/Si	3.00	7.0	50	-
		QMT-8B	97.1	0.9	0.2	0.6	1.0	7.5	AL/Si	3.02	4.5	48	-
		QMT-8C	96.6	1.1	0.2	0.7	1.2	7.5	AL/Si	2.97	5.0	45	-
	包底冲击区/非冲击区 Bottom Impact /Non-impact Area	QMT-5B	97.0	0.9	0.2	0.7	1.0	4.5	AL/SiC	3.05	6.0	60	-
		QMT-5C	96.6	1.1	0.2	0.7	1.2	4.5	AL/SiC	3.00	7.0	50	-
QMT-8B		97.1	0.9	0.2	0.6	1.0	7.5	AL/SiC	3.02	4.5	48	-	
QMT-8C		96.6	1.1	0.2	0.7	1.2	7.5	AL/SiC	2.97	5.0	45	-	
白云石砖配置 Dolomite Bricks Lining	渣线 Slagline	QBMG-36HA	60.8	≤2.5			37.1	-	-	3.04	12.5	80	1700
		QBMG-30A	66.6	≤2.5			31.2	-	-	3.00	13.5	80	1700
		QBMG-20A	76.2	≤2.5			21.2	-	-	2.96	14.0	75	1700
	包壁 Sidewall	QBMG-30B	66.3	≤2.5			31.2	-	-	2.95	14.5	80	1700
		QBMG-20A	76.2	≤2.5			21.2	-	-	2.96	14.0	75	1700
		QMGT-1B	54.3	≤2.5			38.5	4.5	-	2.95	3.0	45	
		QMGT-5B	57.7	≤3.0			28.3	7.5	-	2.90	4.0	40	
	包底冲击区/非冲击区 Bottom Impact /Non-impact Area	QMGT-1B	54.3	≤2.5			38.5	4.5	-	2.95	3.0	45	
QMGT-5B		57.7	≤3.0			28.3	7.5	-	2.90	4.0	40		

## 电炉产品信息 EAF Product Information

部位 Application	牌号 Brand	主原料成分 Chemical Compositions of Raw Materials						抗氧化剂 Anti-Oxidants	B.D g/cm <sup>3</sup>	A.P %	C.C.S MPa
		MgO %	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	C %				
出钢口 Tap Hole	QEMT-14AA-C	97.7	0.5	0.1	0.5	1.0	14.5	AL/Si	2.98	3.0	42
	QEMT-5AA-C	97.7	0.5	0.1	0.5	1.0	4.5	AL/Si	3.10	5.0	70
上炉墙 Upper Sidewall	QEMT-10B-U	97.0	0.9	0.2	0.7	1.0	10.5	AL/Si	3.00	4.0	40
	QEMT-10C-U	96.5	1.1	0.2	0.7	1.3	10.5	AL/Si	2.97	4.5	38
下炉墙 Lower Sidewall	QEMT-8B-L	97.0	0.9	0.2	0.7	1.0	8.0	-	3.02	4.0	48
	QEMT-8C-L	96.5	1.1	0.2	0.7	1.3	8.0	-	3.0	4.5	45
渣线热点 Slagline/Hot Spot	QEMT-14AA-SH	97.7	0.5	0.1	0.5	1.0	14.5	AL/Si	2.98	3.0	42
	QEMT-14A-SH	97.5	0.7	0.1	0.6	0.9	14.5	AL/Si	2.98	3.0	42
渣线区 Slagline	QEMT-10AA-S	97.7	0.5	0.1	0.5	1.0	10.5	AL/Si	3.04	3.0	42
	QEMT-10A-S	97.5	0.7	0.1	0.6	0.9	10.5	AL/Si	3.04	3.5	42
	QEMT-10B-S	97.0	0.9	0.2	0.7	1.0	10.5	AL/Si	3.02	3.5	40

## RH炉产品信息

### RH Degasser Product Information

部位 Application	牌号 Brand	MgO %	Cr <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %	IL %	B.D g/cm <sup>3</sup>	A.P %	C.C.S MPa	R.U.L °C	浸盐 Salt Impregnation
浸渍管 Snorkel	QDMGe-24A	58.3	24.8	1.5	5.4	8.3	1.4	0.3	3.3	15.5	52	1700	NO
	QDMGe-24A	56.9	24.7	1.5	5.4	8.3	1.4	1.8	3.3	11.0	100	1700	YES
	QDMGe-20A	63.7	20.6	1.5	4.7	7.7	1.5	0.3	3.2	15.2	50	1700	NO
	QDMGe-20A	62.4	20.5	1.5	4.7	7.7	1.5	1.7	3.3	10.5	90	1700	YES
环流管 Throat	QDMGe-24A	58.3	24.8	1.5	5.4	8.3	1.4	0.3	3.3	15.5	52	1700	NO
	QDMGe-24A	56.9	24.7	1.5	5.4	8.3	1.4	1.8	3.3	11.0	100	1700	YES
	QDMGe-20A	63.7	20.6	1.5	4.7	7.7	1.5	0.3	3.2	15.2	50	1700	NO
	QDMGe-20A	62.4	20.5	1.5	4.7	7.7	1.5	1.7	3.3	10.5	90	1700	YES
底部槽 Bottom Vessel	QDMGe-20A	63.7	20.6	1.5	4.7	7.7	1.5	0.3	3.2	15.2	50	1700	NO
	QDMGe-20A	62.4	20.5	1.5	4.7	7.7	1.5	1.7	3.3	10.5	90	1700	YES
	QDMGe-18A	65.7	18.9	1.5	4.6	7.5	1.5	0.3	3.2	15.0	50	1700	NO
	QDMGe-18A	64.3	18.8	1.5	4.6	7.5	1.5	1.8	3.3	11.5	85	1700	YES
下部槽 Lower Vessel	QDMGe-20A	63.7	20.6	1.5	4.7	7.7	1.5	0.3	3.2	15.2	50	1700	NO
	QDMGe-20A	62.4	20.5	1.5	4.7	7.7	1.5	1.7	3.3	10.5	90	1700	YES
	QDMGe-18A	65.7	18.9	1.5	4.6	7.5	1.5	0.3	3.2	15.0	50	1700	NO
	QDMGe-18A	64.3	18.8	1.5	4.6	7.5	1.5	1.8	3.3	11.5	85	1700	YES
中部槽 Middle Vessel	QBDMGe-16A	69.1	17.2	1.6	3.9	6.5	1.4	0.3	3.2	15.5	45	1700	NO
	QBDMGe-16A	67.7	17.2	1.6	3.9	6.5	1.4	1.7	3.2	12.0	85	1700	YES
上部槽 Upper Vessel	QBDMGe-16A	69.1	17.2	1.6	3.9	6.5	1.4	0.3	3.2	15.5	45	1700	NO
	QBDMGe-16A	67.7	17.2	1.6	3.9	6.5	1.4	1.7	3.2	12.0	85	1700	YES
合金加料口 Alloy Chute	QDMGe-24A	58.3	24.8	1.5	5.4	8.3	1.4	0.3	3.3	15.5	52	1700	NO
	QDMGe-24A	56.9	24.7	1.5	5.4	8.3	1.4	1.8	3.3	11.0	100	1700	YES
	QDMGe-20A	63.7	20.6	1.5	4.7	7.7	1.5	0.3	3.2	15.2	50	1700	NO
	QDMGe-20A	62.4	20.5	1.5	4.7	7.7	1.5	1.7	3.3	10.5	90	1700	YES
热弯管 Gas Duct	QZHMGe-8A	80.2	9.5	1.5	3.0	3.8	1.8	0.2	3.1	17.5	42	1700	NO
	QZHMGe-8A	78.6	9.5	1.5	3.0	3.8	1.8	1.8	3.2	12.0	80	1700	YES
	QZHMGe-12A	74.7	13.6	1.5	3.3	5.1	1.6	0.2	3.1	16.8	44	1700	NO
	OZHMGe-12A	73.1	13.6	1.5	3.3	5.1	1.6	1.8	3.2	11.5	80	1700	YES

## 客户服务及解决方案 Customized Solutions



公司以ISO9001:2015质量管理体系为基础，内控质量采用更加严格的青花标准，实施更加科学严谨的全程质量跟踪、控制及条码追溯流程，将传统制造优势融入先进的企业信息化管理体系，秉承高效、创新和客户至上的理念，奉献超值的产品和服务。

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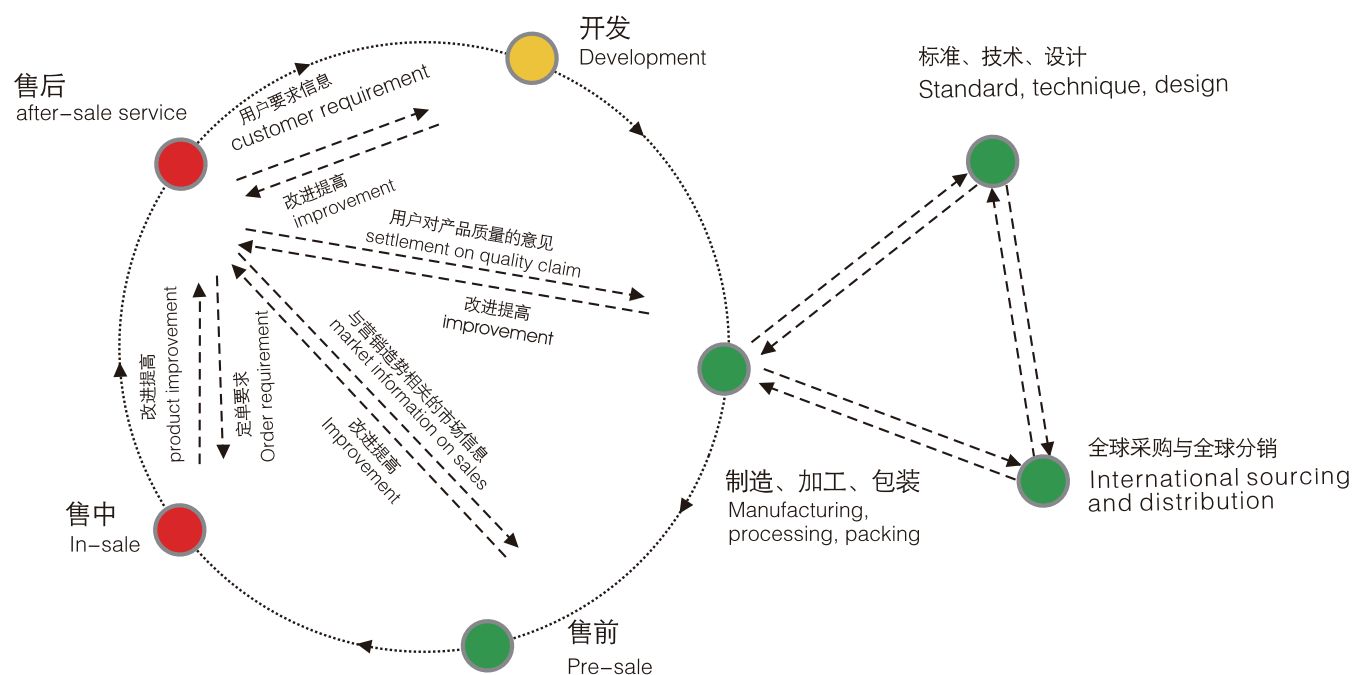
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- New products R&D and upgrading

## 客户服务增值体系

Customer service value added system



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