

**QASIM**<sup>®</sup>  
— GRINDING MEDIA —

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# 安徽新高新钢球集团有限公司

Anhui Qasim Grinding Ball Group Co.,Ltd



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— GRINDING MEDIA —

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地址：安徽省宁国市经济技术开发区河沥园区  
ADD:Heli Park, Economic and Technological Development Zone,  
Ningguo City, Anhui Province  
TEL:0563-4303088  
FAX:0563-4303088  
P.C.:242300  
URL:www.gaoincn.com  
URL:www.q-grindingmedia.com  
E-mail:Web@gaoincn.com

本公司是安徽省高新技术企业、安徽省民营科技企业、中国耐磨铸件之都十强企业、安徽省专精特新中小企业、科技型中小企业、创新型中小企业。拥有八条先进的自动化热处理生产线，一条先进的自主研发的自动化壳型铸造生产线，六条先进的自动化铁模覆砂铸球生产线，四台全谱直读光谱仪。

Our company is a high-tech and private scientific and technological enterprise in Anhui Province, one of the top ten enterprises in China's "Capital of Wear-resistant Castings"(Ningguo City, Anhui province), and a "specialized, sophisticated, distinctive and innovative" small and medium-sized enterprise. It is also recognized as a technology-based and innovative small and medium-sized enterprise. The company has eight advanced automated heat treatment production lines, one advanced self-developed automated shell mold casting production line, six advanced automated sand-coated iron mold casting ball production lines, and four full-spectrum direct-reading spectrometers.

## 节能磨球国内首创

The energy-saving grinding balls are the first of their kind in China.

# COMPANY PROFILE

## 企业简介

安徽新高新钢球集团有限公司坐落在亚洲最大的耐磨材料生产基地——宁国市经济技术开发区河沥园区，是一家专业生产高、低铬合金铸球、多元合金铸球、铸锻，高铬节能磨球、高铬节能磨锻、中铬节能磨球、中铬节能磨锻、低铬节能磨球、低铬节能磨锻、无铬高硬度节能磨球、磨锻的宁国耐磨材料协会二类企业、中国耐磨铸件之都十强企业。

公司成立于2005年5月25日，企业占地面积6万平方米（含安徽省宁国诚信耐磨材料有限公司），新高新集团注册资金5000万元，诚信耐磨注册资金3180万元，固定资产1.5亿元，拥有行政管理及工作人员280人。

公司拥有一条先进的自主研发的自动化壳型铸造生产线、六条先进的自动化铁模覆砂铸球生产线、八条先进的自动化高铬球热处理生产线及其它检测设备20多台，已具备年生产销售“高升牌”“诚信牌”系列产品七万吨，年销售额突破四个亿。产品遍布全国各地，并出口俄罗斯、也门、孟加拉、哈萨克斯坦、吉尔吉斯斯坦、乌兹别克斯坦、印度、越南、老挝、缅甸、马里、沙特阿拉伯、印尼、刚果、菲律宾、秘鲁、厄瓜多尔等国家。

公司拥有一批从事耐磨材料多年的专业技术人才，公司于2005年顺利通过中国最具权威的中国质量认证中心CQC—ISO9001—2015质量管理体系认证及省钢铁材料质量检测监督中心验收，并获得环境管理体系认证、职业健康安全管理体系认证，知识产权管理体系认证。“高升牌”于2006年被中国企业改革与发展研究会名牌培育工作委员会评为“中国著名品牌”；2008年被评为“安徽省铸造企业五十强”；2009年被宁国市政府评为“中国耐磨铸件之都十强企业”；2011年被中国铸造协会评为“中国铸造行业重点骨干企业”，2015年被评为“安徽省高新技术企业”、“安徽省民营科技企业”，2023年被评为“安徽省专精特新企业”，并多次被省、地、市相关部门评为“守合同重信用”单位、“诚信单位”“产品质量信得过”单位“安徽省科技型中小企业”“科创板挂牌企业”“AAA级诚信经营示范单位”“AAA级信用企业”“AAA级质量服务诚信单位”“AAA级重合同守信用企业”。

公司现拥有“实用新型专利”、“发明专利”十九项。

公司本着诚信、友好、互利的原则，视顾客需求为己任，严格按照认证的质量标准来管理企业，为致力将“高升牌”产品根植客户心中而不懈努力拼搏！

公司经营理念：市场比工厂更重要、质量比数量更重要、人才比钱财更重要、做强比做大更重要。

公司质量方针：产品质量为根本、技术创新为核心、规范管理为手段、顾客满意为目标。

Anhui Qasim Grinding Ball Group Co., Ltd. is located in He Li Industrial Park, Ningguo Economic and Technological Development Zone—the largest wear-resistant material production base in Asia. We are a specialized manufacturer of high and low chromium alloy casting balls and forgings, multi-element alloy casting balls and forgings, high/medium/low chromium energy-saving grinding balls and forgings, as well as chromium-free high hardness energy-saving grinding balls and forgings. Our company is a Class II enterprise of the Ningguo Wear-Resistant Materials Association and one of the top ten enterprises in the capital of wear-resistant castings in China (Ningguo City, Anhui Province).

Founded on May 25, 2005, the company (including Anhui Chengxin Wear-Resistant Materials Co., Ltd.) covers an area of 60,000 square meters. Qasim Grinding Ball Group has a registered capital of 50 million yuan, while Chengxin has a registered capital of 31.8 million yuan. The group's fixed assets total 150 million yuan, and we employ 280 administrative and production staff.

Our facilities include one advanced self-developed automatic shell molding casting line, six automated sand-coated iron mold grinding ball production lines, eight automated high-chromium ball heat treatment lines supported by over 20 sets of testing and quality control equipment. We have an annual production and sales capacity of 70,000 tons of “Qasim Grinding media” and “Chengxin” branded products, with annual sales exceeding 400 million yuan. Our products are sold across China and exported to countries such as Russia, Yemen, Bangladesh, Kazakhstan, Kyrgyzstan, Uzbekistan, India, Vietnam, Laos, Myanmar, Mali, Saudi Arabia, Indonesia, Congo, the Philippines, Peru, Ecuador, and other countries.

Our company employs a team of seasoned technical professionals with extensive expertise in wear-resistant materials. In 2005, we have passed the ISO9001:2015 quality management system certification by China Quality Certification Center (CQC), as well as inspections from the Provincial Steel Material Quality Inspection and Supervision Center. We have also obtained certifications for environmental management, occupational health and safety management, and intellectual property management.

The “Gaosheng” brand was recognized as a “Famous Chinese Brand” in 2006 by the Brand Development Committee of the China Enterprise Reform and Development Research Association. In 2008, we were listed among the “Top 50 Foundry Enterprises in Anhui Province.” In 2009, the Ningguo Municipal Government named us one of the “Top Ten Enterprises in the Capital of Wear-Resistant Castings.” In 2011, we were designated as a “Key Backbone Enterprise in China’s Foundry Industry” by the China Foundry Association. In 2015, we were honored as a “High-Tech Enterprise of Anhui Province” and a “Private Technology Enterprise of Anhui Province.” In 2023, we were recognized as a “Specialized, Refined, and Innovative Enterprise of Anhui Province.”

We have also been repeatedly acknowledged by provincial, regional, and municipal authorities as a “Contract-Honoring and Trustworthy Enterprise”, “Enterprise with Integrity”, “Product Quality Trustworthy Enterprise”, “Technologically Advanced SME”, “Listed Sci-Tech Innovation Enterprise”, “AAA-Level Integrity Operation Demonstration Enterprise”, “AAA-Level Credit Enterprise”, “AAA-Level Quality & Service Integrity Enterprise”, and “AAA-Level Contract-Honoring and Trustworthy Enterprise”.

Currently, the company holds 19 utility model patents and invention patents.

Adhering to the principles of integrity, mutual benefit, and customer-oriented service, we manage our company strictly in accordance with certified quality standards. We are committed to establishing a lasting presence of the “Gaosheng” brand in customers’ minds.

Business Philosophy: Market primacy over factory, quality over quantity, talent over capital, strength over scale

Quality Policy: Taking product quality as the foundation, technological innovation as the core, standardized management as the method, and customer satisfaction as the goal.

## 胡高文 Gaowen Hu

董事长兼总经理 Chairman and General Manager

第十四、十五、十六届市人大代表

安徽新高新钢球集团有限公司 董事长  
安徽省宁国诚信耐磨材料有限公司 董事长  
安徽宁国龙升机械装备科技有限公司 董事长  
安徽楠洋新材料科技有限公司 董事长  
厄瓜多尔BINJACORPSA钢球有限公司 董事长

# CHROME ALLOY CAST GRINDING BALLS

## 铬合金铸造磨球



### 化学成分 Chemical Composition

牌号 Designation	化学成分 Chemical Composition								
	C	Si	Mn	Cr	MO	Cu	Ni	P	S
ZQCr26	2.1-3.3	≤1.2	0.2-1.5	>23.0-30.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr20	2.1-3.5	≤1.2	0.2-1.5	>18.0-23.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr15	2.1-3.6	≤1.2	0.2-1.5	>14.0-18.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr12	2.1-3.6	≤1.2	0.2-1.5	>10.0-14.0	≤1.0	≤1.0	≤1.0	≤0.06	≤0.06
ZQCr8	2.1-3.6	≤2.2	0.2-1.5	7.0-10.0	≤1.0	≤0.8	-	≤0.06	≤0.06
ZQCr5	2.1-3.6	≤1.5	0.2-1.5	4.0-6.0	≤1.0	≤0.8	-	≤0.06	≤0.06
ZQCr2	2.1-3.6	≤1.5	0.2-1.5	1.0-3.0	≤1.0	≤0.8	-	≤0.06	≤0.06

注：允许加入少量或微量V、Ti、Nb、B和RE等元素  
Note: Trace amounts of Mo, Cu, Ni, W, Ti, Nb, B and RE elements may be added.

### 力学性能与金相组织 Mechanical Properties and Microstructure

牌号 Designation	表面硬度HRC Surface Hardness (HRC)	芯部硬度HRC Core Hardness (HRC)	冲击值 AK(J/cm <sup>2</sup> )	金相组织 Microstructure	磨球冲击疲劳寿命 Impact Fatigue Life Of Grinding Ball
ZQCr26	>58	>56	≥3.8	M+C	≥18000
ZQCr20	>58	>56	≥3.8	M+C	≥18000
ZQCr15	>58	>56	≥3.8	M+C	≥18000
ZQCr12	>58	>56	≥3.5	M+C	≥18000
ZQCr8	50-65	48-63	≥2.5	P+C/M+C	≥12000
ZQCr5	49-62	47-60	≥2.0	P+C/M+C	≥10000
ZQCr2	>48	>46	≥2.0	P+C	≥8000

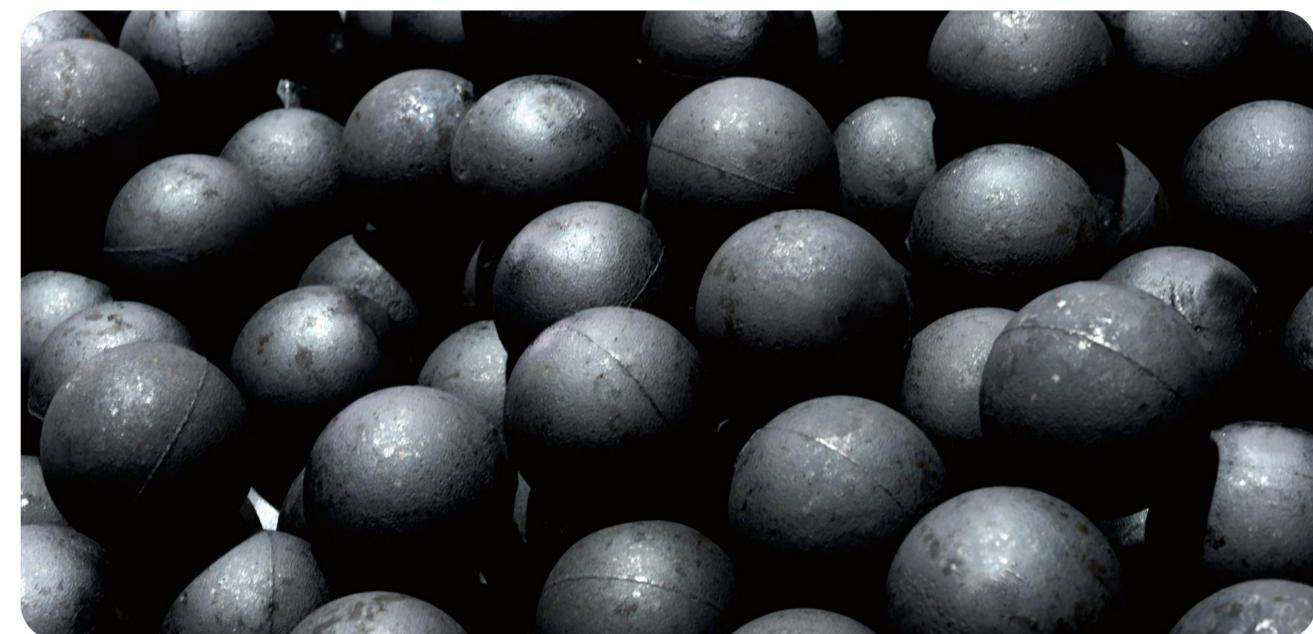
M-马氏体 Martensite P-珠光体 Pearlite C-碳化物 Carbide

### 直径公差 Diameter tolerance

公称直径mm	Φ ≤ 30	30 < Φ ≤ 60	60 < Φ ≤ 80	80 < Φ ≤ 100	100 < Φ ≤ 120	Φ > 120
直径公差mm Diameter tolerance	+1.0 -1.0	+1.5 -1.0	+2.0 -1.0	+2.5 -1.0	+3.0 -1.0	+3.5 -2.0

### 力学性能与金相组织 Mechanical Properties and Microstructure

球径 Ball Diameter	每只重量 (kg) Weight Of Each Ball	每吨个数 (只) Pcs/ton	堆密度 Bulk Density (t/m <sup>3</sup> )
Φ 10	0.0135	74073	5.26
Φ 12	0.0181	55248	5.20
Φ 15	0.0242	41322	4.94
Φ 20	0.0322	31056	4.89
Φ 25	0.063	15873	4.87
Φ 30	0.11	9091	4.85
Φ 40	0.257	3891	4.76
Φ 50	0.50	2000	4.70
Φ 60	0.867	1153	4.66
Φ 70	1.37	729	4.62
Φ 80	2.05	487	4.60
Φ 90	2.9	345	4.58
Φ 100	4.00	250	4.56
Φ 110	5.3	188	4.55
Φ 120	6.80	147	4.54
Φ 125	7.75	129	4.52
Φ 130	8.74	114	4.50



# CHROMIUM ALLOY CAST GRINDING CYLPEBS

## 铬合金铸锻



### 化学成分 Chemical Composition

牌号 Designation	化学成分 Chemical Composition					
	C	Si	Mn	Cr	P	S
ZDCr26	2.3-3.3	≤1.2	0.3-1.0	>24.0-30.0	≤0.10	≤0.06
ZDCr23	2.3-3.3	≤1.2	0.3-1.0	>22.0-24.0	≤0.10	≤0.06
ZDCr20	2.3-3.3	≤1.2	0.3-1.0	>18.0-22.0	≤0.10	≤0.06
ZDCr17	2.3-3.3	≤1.2	0.3-1.0	>16.0-18.0	≤0.10	≤0.06
ZDCr15	2.3-3.6	≤1.2	0.3-1.0	>14.0-16.0	≤0.10	≤0.06
ZDCr12	2.3-3.5	≤1.8	0.3-1.0	>10.0-14.0	≤0.10	≤0.06
ZDCr8	2.2-3.5	≤2.2	0.3-1.5	7.0-10.0	≤0.10	≤0.06
ZDCr5	2.2-3.5	≤1.8	0.3-1.5	4.0-6.0	≤0.10	≤0.10
ZDCr2	2.2-3.5	≤1.8	0.3-1.5	0.5-3.5	≤0.10	≤0.10

注：允许加入适量Mo、Cu、Ni等元素和微量V、Ti、Nb、B和RE等元素



### 力学性能与金相组织 Mechanical Properties and Microstructure

牌号 Designation	表面硬度HRC Surface Hardness	芯部硬度HRC Core Hardness	金相组织 Microstructure
ZDCr26	≥58	≥56	M+C
ZDCr23	≥58	≥56	M+C
ZDCr20	≥58	≥56	M+C
ZDCr17	≥60	≥58	M+C
ZDCr15	≥60	≥58	M+C
ZDCr12	≥60	≥58	M+C
ZDCr8	50-65	48-63	P+C/M+C
ZDCr5	49-62	47-60	P+C/M+C
ZDCr2	≥48	≥46	P+C

M-马氏体 Martensite P-珠光体 Pearlite C-碳化物 Carbide

### 产品规格 Specification

产品规格 Specification					
Φ8*8(10)	Φ10*10(12)	Φ12*12(14)	Φ14*14(16)	Φ16*16(18)	Φ18*18(20)
Φ20*20(25)	Φ25*30	Φ30*35	Φ35*40	Φ40*45	Φ50*60



## HIGH-CHROMIUM ENERGY-SAVING GRINDING BALLS

### 高铬节能磨球



#### 化学成分 Chemical Composition

牌号 Designation	化学成分 Chemical Composition							
	C	Si	Mn	Cr	P	S	特别合金(1)	特别合金(2)
ZQCr12	2.1-3.3	≤1.2	0.2-1.5	>10-14	≤0.06	≤0.06	≤0.2	≤0.2

注：Cr的含量可根据客户的需要增加

#### 力学性能与金相组织 Mechanical Properties and Microstructure

牌号 Designation	表面硬度HRC Surface Hardness (HRC)	芯部硬度HRC Core Hardness (HRC)	金相组织 Microstructure	冲击值 AK(J/cm <sup>2</sup> )	磨球冲击疲劳寿命 Impact Fatigue Life Of Grinding Ball
ZQCr12	≥62	≥60	M+C	≥5.0	≥23000

M-马氏体 Martensite C-碳化物 Carbide



## MINING USE ENERGY - SAVING GRINDING BALLS

### 矿山专用节能磨球



#### 化学成分 Chemical Composition

牌号 Designation	化学成分 Chemical Composition							
	C	Si	Mn	Cr	P	S	特别合金(1)	特别合金(2)
ZQCr5	2.1-3.6	≤1.2	0.2-1.5	>5(±0.2)	≤0.06	≤0.06	≤0.2	≤0.2

注：Cr的含量可根据客户的需要增加

#### 力学性能与金相组织 Mechanical Properties and Microstructure

牌号 Designation	表面硬度HRC Surface Hardness (HRC)	芯部硬度HRC Core Hardness (HRC)	金相组织 Microstructure	冲击值 AK(J/cm <sup>2</sup> )	磨球冲击疲劳寿命 Impact Fatigue Life Of Grinding Ball
ZQCr5	≥49	≥47	P+C	≥3.5	≥12000

M-马氏体 Martensite C-碳化物 Carbide



# CHROMIUM -FREE HIGH HARDNESS ENERGY- SAVING GRINDING BALLS AND FORGINGS

无铬高硬度节能磨球、磨锻

## 化学成分 Chemical Composition

牌号 Designation	化学成分 Chemical Composition							
	C	Si	Mn	Cr	P	S	特别合金(1)	特别合金(2)
ZQCr2/ZDCr2	2.1-3.6	≤1.5	0.2-1.5	0-1	<0.1	<0.1	≤0.2	≤0.2



## 力学性能与金相组织 Mechanical Properties and Microstructure

牌号 Designation	表面硬度HRC Surface Hardness (HRC)	芯部硬度HRC Core Hardness (HRC)	金相组织 Microstructure	冲击值 AK(J/cm <sup>2</sup> )	磨球冲击疲劳寿命 Impact Fatigue Life Of Grinding Ball
ZQCr2/ZDCr2	≥58	≥56	M+C	≥4.0	≥18000



# ALLOY STEEL CASTINGS

## 合金铸钢件



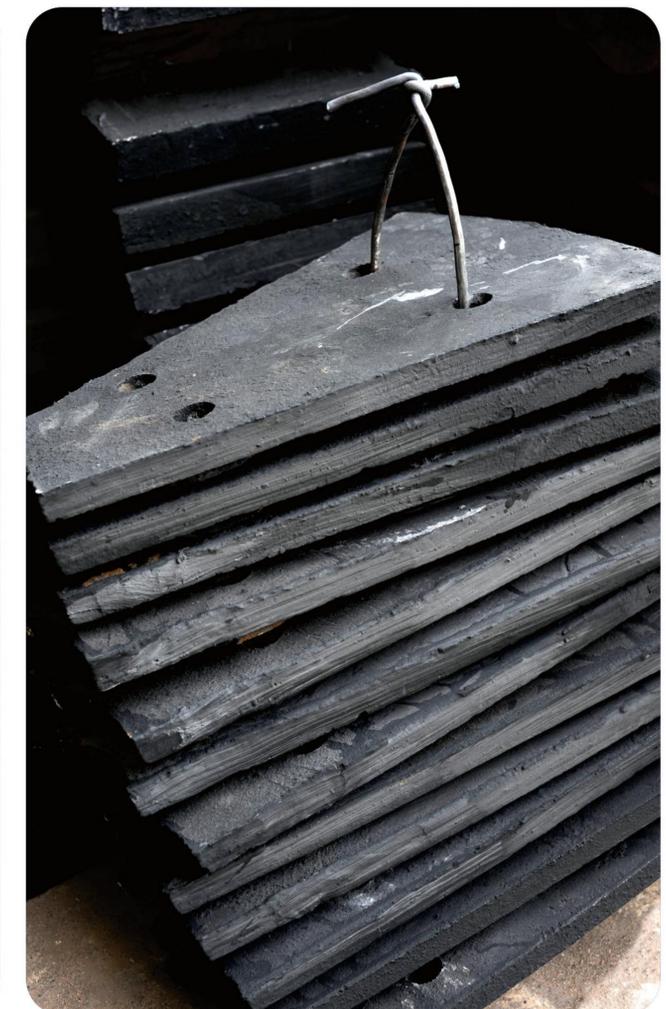
### 化学成分 Chemical Composition

序号 NO.	种类 Kinds	牌号 Designation	化学成分 Chemical Composition						
			C	Si	Mn	Cr	Mo	Ni	Cu
1	中碳中铬 I	ZG30Cr5MoRE	0.25-0.40	0.3-1.0	0.3-1.0	4.5-5.5	0.2-1.0		
2	中碳中铬 II	ZG40Cr5MoRE	0.30-0.45	0.3-1.0	0.3-1.0	4.5-5.5	0.2-1.0		
3	中碳低合金	ZG40CrMoNiRE	0.3-0.5	0.3-1.5	0.3-1.0	1.2-1.8	0.2-0.6	0.1-0.4	
4	低碳高合金	ZG20Cr9NiMo	0.15-3.5	≤1.0	0.3-1.0	8-10	0.4-0.8	1.4-1.8	≤0.1
5	铬钼镍合金钢	ZG45Cr3NiMoMnRE	0.3-0.5	0.3-0.8	0.3-1.2	2.0-3.2	0.3-0.5	0.5-1.0	
6	90 铬合金钢	ZG90Cr6MoMn	0.85-0.95	0.4-0.8	0.4-0.8	5-8	0.2-0.4		
7	普通高锰钢	ZGMn13	1.1-1.4	0.3-1.0	11-14				
8	改性高锰钢	ZGMn13Cr2	1.0-1.5	0.3-1.0	11-14	0.5-4.0			
9	超高锰钢	ZGMn17Cr2	1.0-1.5	0.3-1.0	16-19	1.0-4.0		Ti0.2-0.4	
10	高铬铸铁	KmTBCr15Mo2	2.0-2.8	≤1.2	0.5-1.0	13-18	0.2-2.5	0-1.0	0-1.2
11	高铬铸铁	KmTBCr20Mo2	2.0-3.0	≤1.2	0.5-1.0	18-22	1.5-2.5	0-1.5	0.8-1.2
12	高铬铸铁	KmTBCr26	2.0-3.0	≤1.2	0.5-1.0	23-28	0-1.0	0-1.5	0-2.0
13	高铬铸钢	ZGCr12SiMn-GT	1.0-2.0	≤1.2	0.5-2.0	12-14	0-1.0	0-1.0	0-1.0
14	高铬铸钢	ZGCr15SiMn-GT	1.0-2.0	≤1.2	0.5-2.0	15-17	0-1.0	0-1.0	0-1.0

C-碳化物 Carbide M-马氏体 Martensite B-贝氏体 Bainite F-铁素体 Ferrite A-奥氏体 Ausenite

序号 NO.	种类 Kinds	牌号 Designation	化学成分 Chemical Composition			机械性能 Mechanical Properties			金相组织 Microstructure
			Cu	S	P	AK(J/cm <sup>2</sup> )	HRC	σ b(Mpa)	
1	中碳中铬 I	ZG30Cr5MoRE		≤0.045	≤0.045	≥25	≥45		M+B+C
2	中碳中铬 II	ZG40Cr5MoRE		≤0.045	≤0.045	≥20	≥48		M+B+C
3	中碳低合金	ZG40CrMoNiRE		≤0.04	≤0.04	≥30	≥40		M+F
4	低碳高合金	ZG20Cr9NiMo	≤0.1	≤0.045	≤0.045	≥40	≥40		M+C
5	铬钼镍合金钢	ZG45Cr3NiMoMnRE		≤0.04	≤0.04	≥20	≥50		M+C
6	90 铬合金钢	ZG90Cr6MoMn		≤0.045	≤0.045	≥7	≥50		M+C
7	普通高锰钢	ZGMn13		≤0.06	≤0.10	≥147	HB≤229	637	A
8	改性高锰钢	ZGMn13Cr2		≤0.06	≤0.10	≥80	≤240		A+C
9	超高锰钢	ZGMn17Cr2		≤0.06	≤0.10	≥50	≤260		A+C
10	高铬铸铁	KmTBCr15Mo2	0-1.2	≤0.06	≤0.10		≥53		M+A+C
11	高铬铸铁	KmTBCr20Mo2	0.8-1.2	≤0.06	≤0.10	≥3	≥58		M+A+C
12	高铬铸铁	KmTBCr26	0-2.0	≤0.06	≤0.10		≥55		M+A+C
13	高铬铸钢	ZGCr12SiMn-GT	0-1.0	≤0.06	≤0.10	≥3.2	≥55		M+A+C
14	高铬铸钢	ZGCr15SiMn-GT	0-1.0	≤0.06	≤0.10	≥3.5	≥55		M+A+C

C-碳化物 Carbide M-马氏体 Martensite B-贝氏体 Bainite F-铁素体 Ferrite A-奥氏体 Ausenite



# AUTOMATIC IRON MOULD SAND-COATED CASTING BALL PRODUCTION LINE

自动化铁模覆砂铸球生产线



## INDEPENDENT RESEARCH AND DEVELOPMENT OF ADVANCED AUTOMATIC SHELL CASTING PRODUCTION LINE

自主研发先进自动化壳型铸造生产线



## AUTOMATIC HIGH CHROMIUM BALL HEAT TREATMENT PRODUCTION LINE

自动化高铬球热处理生产线



## MEDIUM FREQUENCY MELTING EQUIPMENT

中频熔炼设备



## AUTOMATIC SEPARATION AND SORTING EQUIPMENT

自动化分离分选设备



POURING AREA/  
FINISHED PRODUCT WAREHOUSE  
浇筑/成品库



▶▶ Pouring Area  
浇筑



▶▶ Finished Product Warehouse  
成品库



# TESTING MACHINE AND INSPECTION INSTRUMENT

## 试验和检测仪器设备

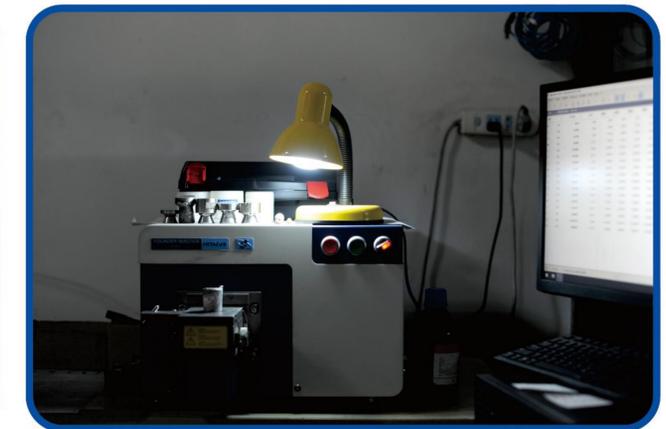


### ADVANCED PHYSICAL AND CHEMICAL TESTING EQUIPMENT 先进的理、化检测设备

- 1.直读光谱仪 / 1.Optical Emission Spectrometer
- 2. (全谱) 直读光谱仪 / 2.(Full-Spectrum) Optical Emission Spectrometer
- 3.洛氏硬度计 / 3.Rockwell Hardness Tester
- 4.冲击试验机 / 4.Impact Testing Machine
- 5.线切割机 / 5.Wire Electrical Discharge Machine (Wire EDM)
- 6.金相显微镜 / 6.Metallurgical Microscope
- 7.红外测温仪 / 7.Infrared Thermometer
- 8.落球试验机 / 8.Falling Ball Testing Machine



直读光谱仪



(全谱) 直读光谱仪



洛氏硬度计



冲击试验机



线切割机



金相显微镜



红外测温仪

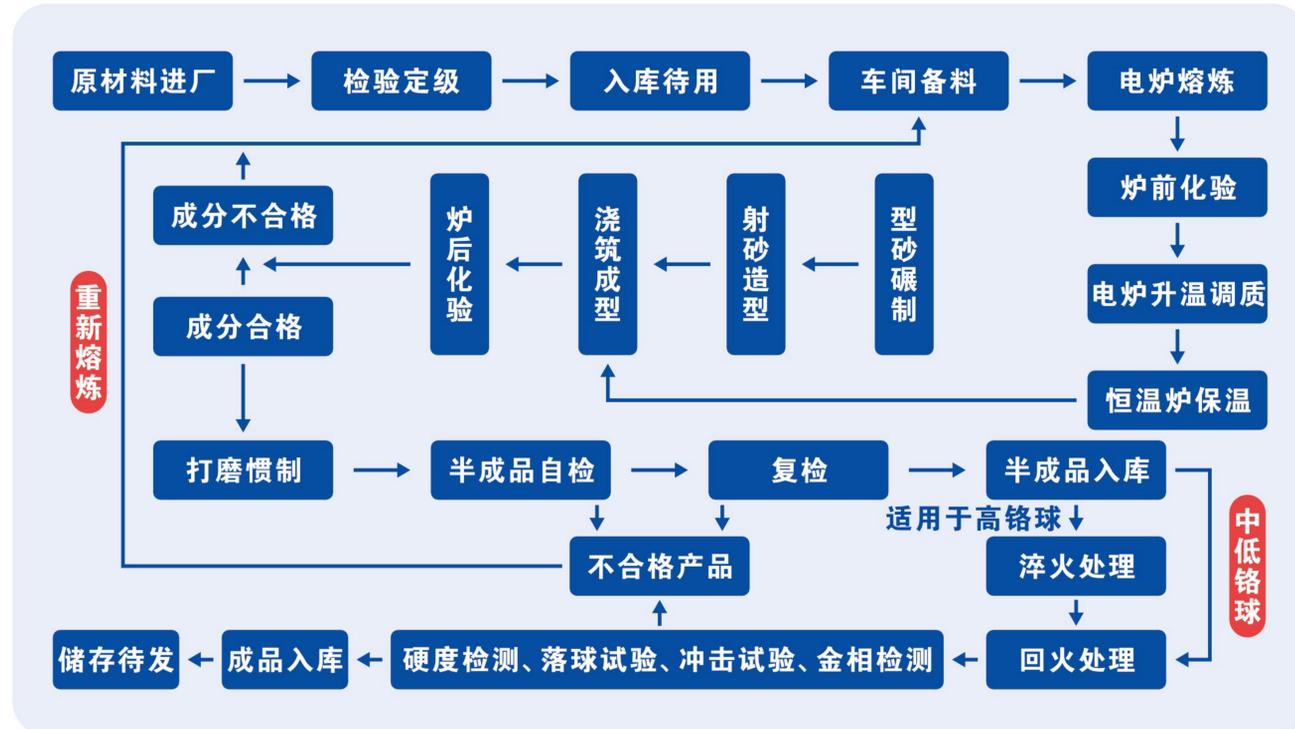


落球试验机

# TESTING MACHINE AND INSPECTION INSTRUMENT

## 生产流程工艺

产品工艺流程、检验、包装 Product process, inspection, packaging



一、内部质量：在通过浇口中心和球心的剖切面上不允许有缩孔和缩松。

二、外部质量：铸球不允许有裂纹、缩孔、严重的冷隔和皱皮。

三、试验方法及抽样检验规格按相应的国家或行业标准执行。

四、标志、包装、运输和贮存。

4.1、产品包装上有明显的产品标志，其内容包括：

- a 产品名称、代号和标准号；b 产品批号
- c 出厂日期；d 制造厂名称；e 商标

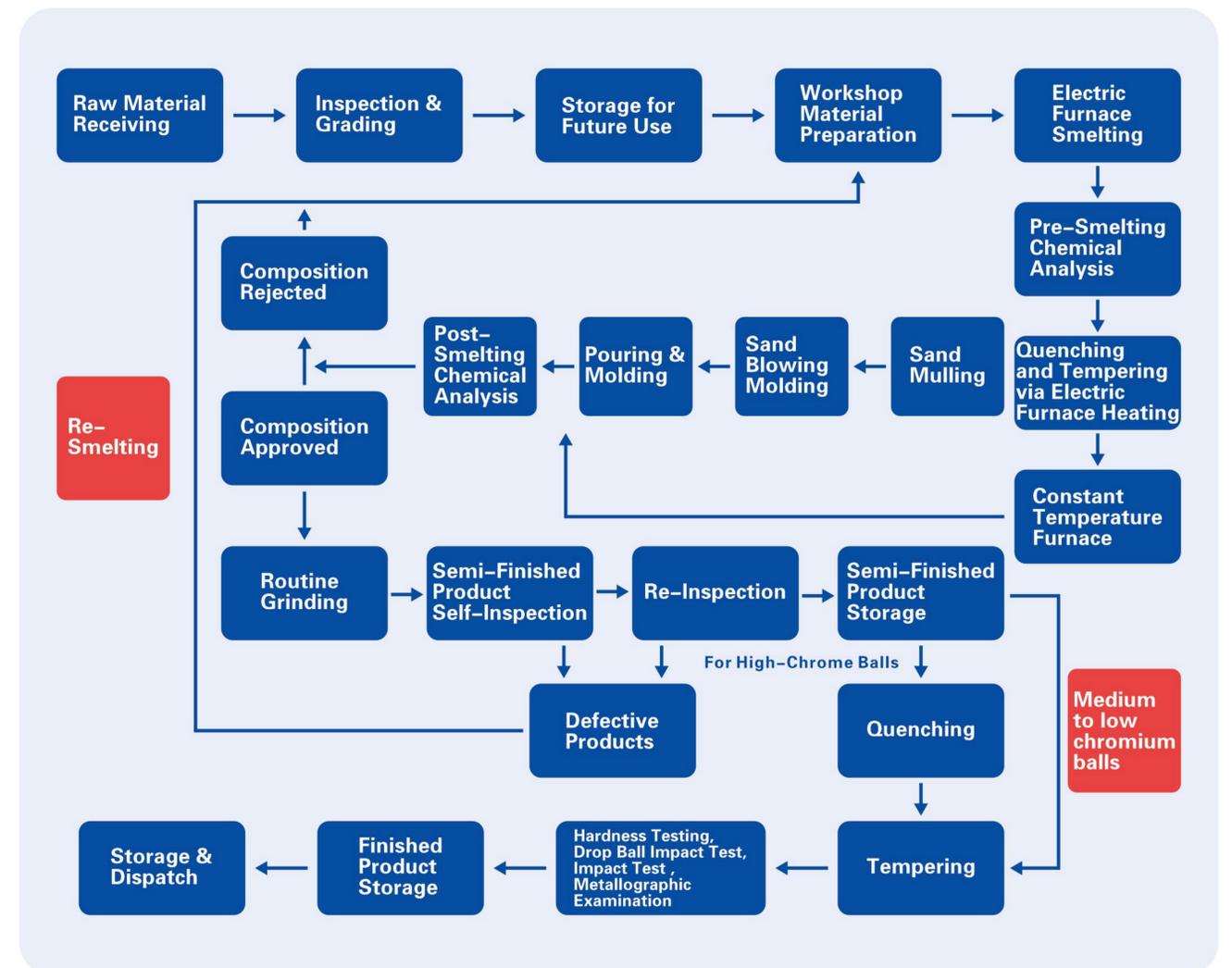
4.2、铸球应采用高强度编织袋吨包装。

4.3、铸球在运输和贮存时，防止酸、碱及水的侵蚀，并按铸球的规格分别包装。

五、产品合格证、质保书、出厂检验报告。

5.1、合格证：我公司所有出库产品均有合格证标签。

5.2、质保书、出厂检验报告：每批货物发出时，提供本批货物的质保书及出厂检验报告。



1. Internal Quality: No shrinkage cavities or porosity shall be permitted on the cross-sectional plane passing through the sprue center and ball center.

2. External quality: Casting balls are not allowed to have cracks, shrinkage holes, serious cold insulation and wrinkles.

3. The test methods and sampling inspection specifications shall be implemented according to the corresponding national or industry standards.

4. Marking, packaging, transportation and storage.

4.1 The product packaging is clearly marked with the product mark, which includes:

- a Product name, code and standard number; b Product lot number
- c. Date of manufacture; d. Factory Name; e. Trademarks

4.2 Packaging Requirements Cast grinding balls shall be packaged in high-strength woven bags (ton packaging).

4.3. During transportation and storage, the casting ball should be prevented from the erosion of acid, alkali and water, and packed according to the specifications of the casting ball.

5. Product certificate, warranty and factory inspection report.

5.1 Certificate of Conformity: All outbound products from our company are affixed with compliance certification labels.

5.2 Warranty Certificate & Factory Inspection Report: For each batch of goods dispatched, the corresponding Warranty Certificate and Factory Inspection Report shall be provided.

# ENTERPRISE QUALIFICATIONS

## 企业资质

# ENTERPRISE PATENTS

## 企业专利

Enterprise Management System Certification  
企业三体系



### 高新技术认定 High-tech qualification

产品名称: 节能磨球  
所属单位: 安徽新高新球集团有限公司  
注册商号: 高升  
证书号码: 341214410016  
批准文号: 高科[2020]73号  
期限: 2020年03月1日至2023年02月29日  
颁证机关: 宣城科技局  
颁证日期: 2020年03月1日  
安徽省科学技术厅印制

### 高新技术产品认定证书

关于节能磨球的技术说明及使用性能

我公司于2017年4月联合合肥工业大学共同合作研发及成果转化项目材料一节能磨球技术开发,经过三年共同努力,终于研发出新一代抗磨材料一节能磨球。

该磨球在经过上百次的试验过程中,找到了最合理的配比、磨球及热处理技术,通过添加新材料,改进热处理工艺,改进球体及氧化体温度,马氏体球化时间,使其产品硬度和耐磨性提高2-3度,产品外表比其他同类产品提高3-4%。

该磨球在试验使用过程中,从重量到小变形不脱落(微小变形自然淘汰的除外),破碎率低(矿石仅小于0.6%,进行行业仅小于0.2%),该磨球在不磨工况条件下及磨工况下均可使用,并在使用过程中提高了自磨率,降低了磨球填充率,降低了能耗,节约了磨球使用量,提高了出磨浓度,进而节约了电费,从而解决了磨球行业产品易磨、易变形、易破碎的行业通病,是替代目前普通高、中、低铁球,耐磨最佳选择,更是目前国内无可替代的最佳产品。

安徽新高新球集团有限公司



# ENTERPRISE HONOR

## 企业荣誉



# TEST REPORTS

## 检测报告

# COOPERATION ENTERPRISES

## 合作单位

The image displays a collection of 20 test and inspection reports. The top 16 reports are from SGS, arranged in a 4x4 grid. Each report includes a header with the SGS logo, a QR code, and a title 'TEST REPORT'. The reports specify customer information (Anhui Qasim Grinding Ball Group Co., Ltd), sample details (High Chrome grinding media ball), and test results for various parameters like chemical composition and mechanical properties. The bottom 4 reports are from MA (Material Analysis), including a '检验报告' (Inspection Report) for grinding media balls and three '检验报告' (Inspection Reports) for material quality control, each containing detailed chemical analysis tables.

The graphic features a central cluster of logos for various industrial and mining enterprises, arranged in a hexagonal pattern. The logos include:
 

- 中煤集团 (China Coal Group)
- 中国华能 (China Huaneng)
- CONCH 海螺集团 (Conch Cement)
- Sinoma 中国中材 (Sinoma)
- 赣锋锂业 (Ganfeng Lithium)
- 中国中铁 (China Railway Group)
- DUNSHI 冀东水泥 (Jidong Cement)
- MINIMETALS 中国五矿 (Minimetals)
- 国轩高科 (Gotion High-Tech)
- MCC 中冶集团 (MCC)
- 金圆股份 (Jinyuan)
- 紫金矿业 (Zijin Mining)
- 信义玻璃 (Xinyi Glass)
- BNMC 白银有色集团 (BNMC)
- KISC 昆钢控股 (KISC)