



Address:

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PRODUCTS



Our grinding steel balls are widely used in metal mining, mineral processing, cement, power plant and other industries .The product has the characteristics of high hardness, strong wear resistance, low crushing rate and stable quality, which can greatly reduce the wear cost of the above enterprises, improve production efficiency and enhance the overall economic income of the enterprise.

FGB

FORGED GRINDING BALLS

CGB

CAST GRINDING BALLS

CGC

CAST GRINDING CYLPEBS

GR

GRINDING RODS



FORGED GRINDIG BALLS

Diameter tolerance and roundness

Diameter	30	40	50	60	70	80	90	100	110	120	125	150
允许偏差 (mm) Tolerance		±2				+3, -2			+4, -3			+5, -4
圆度 % Roundness		≤2				≤3			≤4			≤5

2. Chemical composition

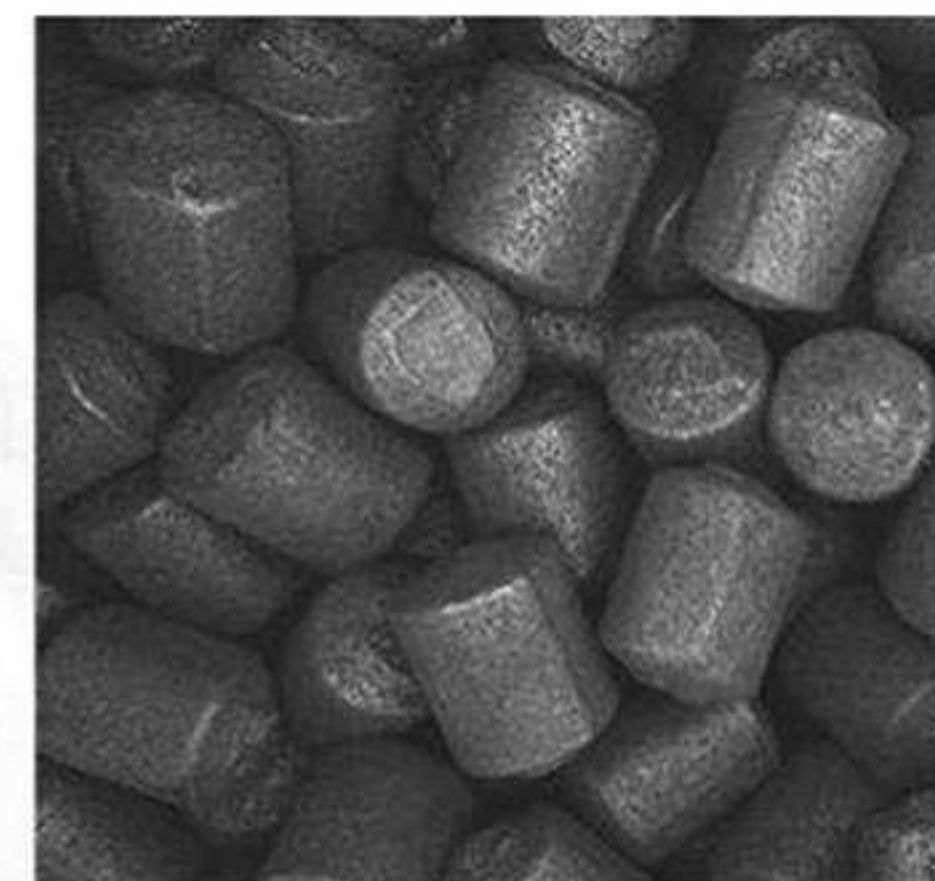
牌号Brand	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni(%)
45#	0.42-0.50	0.17-0.37	0.50-0.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
50Mn	0.48-0.56	0.17-0.37	0.60-1.00	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
60Mn	0.57-0.65	0.17-0.37	0.70-1.00	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
65Mn	0.62-0.70	0.17-0.37	0.90-1.00	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
U71MN	0.65-0.76	0.17-0.37	1.10-1.40	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
40 Cr	0.37-0.45	0.17-0.37	0.50-0.80	0.80-1.1	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
42CrMo	0.38-0.45	0.17-0.37	0.50-0.80	0.90-1.2	0-0.03	0.15-0.25	0-0.035	0-0.035	0-0.30
70Cr2	0.65-0.75	0.20-0.30	0.75-0.90	0.55-0.70	0-0.25	0-0.30	0-0.030	0-0.030	0-0.30
40Mn2	0.37-0.44	0.17-0.37	1.40-1.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.30	0-0.30
B-2	0.70-0.90	0.17-0.37	0.70-0.90	0.40-0.60	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
B-3	0.58-0.66	1.20-1.90	0.65-0.80	0.70-0.90	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
B-4	0.60-0.65	1.60-1.70	0.70-0.80	0.7-0.8	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
B-6	0.75-0.85	0.20-0.40	0.90-1.00	0.85-0.95	0-0.25	0.06-0.13	0-0.035	0.02-0.035	0.06-0.13
B-6A	0.82-0.95	0.20-0.40	0.92-1.02	0.80-0.95	0-0.25	0.06-0.10	0-0.035	0-0.035	0.06-0.10
B-7	0.35-0.40	0.17-0.37	0.70-0.80	0.9-1.0	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
BU	0.95-1.05	0.17-0.37	0.90-1.10	0.40-0.60	0-0.15	0-0.05	0-0.035	0-0.035	0-0.30
GCr15	0.95-1.05	0.15-0.35	0.20-0.40	1.30-1.65	0-0.25	0-0.10	0-0.027	0-0.020	0-0.10



3. Technical specification

牌号Brand	破碎率 Breakage rate	硬度 Hardness(HRC)	冲击值(J/cm 2) Impact value	跌落次数 Drop times	金相组织 Micro structure
45#	<1%	≥45	≥12	≥8000	M+C
50Mn	<1%	≥55	≥12	≥10000	M+C
60Mn	<1%	≥55	≥12	≥12000	M+C
65Mn	<1%	≥58	≥12	≥12000	M+C
U71MN	<1%	≥58	≥12	≥12000	M+C
40Cr	<1%	≥55	≥12	≥12000	M+C
42CrMo	<1%	≥55	≥12	≥12000	M+C
70Cr2	<1%	≥58	≥12	≥12000	M+C
40Mn2	<1%	≥55	≥12	≥12000	M+C
B-2	<1%	≥58	≥12	≥15000	M+C
B-3	<1%	≥60	≥12	≥15000	M+C
B-4	<1%	≥60	≥12	≥15000	M+C
B-6	<1%	≥60	≥12	≥15000	M+C
B-6A	<1%	≥60	≥12	≥15000	M+C
B-7	<1%	≥60	≥12	≥15000	M+C
BU	<1%	≥60	≥12	≥15000	M+C
GCr15	<1%	≥60	≥12	≥15000	M+C





CAST GRINDING BALLS

Chrome alloy casting steel balls

1.尺寸及允许的偏差、外形 Diameter tolerance and Length tolerance

直径 (mm)	$\Phi < 30$	$30 < \Phi < 60$	$60 < \Phi < 80$	$80 < \Phi < 100$	$\Phi > 100$
直径公差(mm)	+1, -1	+1.5, -1	+2, -1	+2.5, -1	+3, -1

2.化学成分 Chemical composition

牌号 Brand	C	Si	Mn	Cr	Mo	Cu	Ni	P	S
ZQCr26	2.0-3.3	1.2max	0.3-1.5	>23.0-30.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr20	2.0-3.3	1.2max	0.3-1.5	>18.0-23.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr15	2.0-3.3	1.2max	0.3-1.5	>14.0-18.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr12	2.0-3.3	1.2max	0.3-1.5	>10.0-14.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr8	2.1-3.3	2.2max	0.3-1.5	7.0-10.0	0-1.0	0-0.8	-	≤ 0.10	≤ 0.06
ZQCr5	2.1-3.3	1.5max	0.3-1.5	4.0-6.0	0-1.0	0-0.8	-	≤ 0.10	≤ 0.10
ZQCr2	2.1-3.6	1.5max	0.3-1.5	1.0-3.0	0-1.0	0-0.8	-	≤ 0.10	≤ 0.10

3.技术规范 Technical specification

牌号 Brand	直径(mm) Diameter	硬度 (HRC) Hardness	破碎率 Breakage rate	冲击值(J/cm ²) Impact value	跌落次数 Drop times	金相组织 Micro structure
ZQCr26	17-150	>58	<1%	>7	≥ 12000	M+C
ZQCr20	17-150	>58	<1%	>6	≥ 12000	M+C
ZQCr15	17-150	>58	<1%	>5	≥ 12000	M+C
ZQCr12	17-150	>58	<1%	>3.5	≥ 12000	M+C
ZQCr8	17-150	>58	<1%	>3	≥ 12000	M+C
ZQCr5	17-150	>47	<1%	>2	≥ 10000	M+C
ZQCr2	17-150	>45	<1%	>1.5	≥ 8000	P+C

CAST GRINDING CYLPEBS

Chrome alloy casting steel cylpebs

1.尺寸及允许的偏差 Diameter tolerance and Length tolerance

直径 (mm)	8x10	10x12	12x14	14x16	16x18	18x20	20x25
Diameter	25x30	30x35	35x40	40x45	45x50	50x55	55x60
直径公差 Tolerance of diameter(mm)							+1, -1
长度公差 Tolerance of length (mm)							+2, -2

2.化学成分 Chemical composition

牌号 Brand	C	Si	Mn	Cr	Mo	Cu	Ni	P	S
ZQCr26	2.0-3.3	1.2max	0.3-1.5	>23.0-30.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr20	2.0-3.3	1.2max	0.3-1.5	>18.0-23.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr15	2.0-3.3	1.2max	0.3-1.5	>14.0-18.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr12	2.0-3.3	1.2max	0.3-1.5	>10.0-14.0	0-3.0	0-1.2	0-1.5	≤ 0.10	≤ 0.06
ZQCr8	2.1-3.3	2.2max	0.3-1.5	7.0-10.0	0-1.0	0-0.8	-	≤ 0.10	≤ 0.06
ZQCr5	2.1-3.3	1.5max	0.3-1.5	4.0-6.0	0-1.0	0-0.8	-	≤ 0.10	≤ 0.10
ZQCr2	2.1-3.6	1.5max	0.3-1.5	1.0-3.0	0-1.0	0-0.8	-	≤ 0.10	≤ 0.10

3.技术规范 Technical specification

牌号 Brand	直径(mm) Diameter	硬度(HRC) Hardness	破碎率 Breakage rate	冲击值(J/cm ²) Impact value	跌落次数 Drop times	金相组织 Micro structure
ZQCr26	17-150	>58	<1%	>7	≥ 12000	M+C
ZQCr20	17-150	>58	<1%	>6	≥ 12000	M+C
ZQCr15	17-150	>58	<1%	>5	≥ 12000	M+C
ZQCr12	17-150	>58	<1%	>3.5	≥ 12000	M+C
ZQCr8	17-150	>58	<1%	>3	≥ 12000	M+C
ZQCr5	17-150	>47	<1%	>2	≥ 10000	M+C
ZQCr2	17-150	>45	<1%	>1.5	≥ 8000	P+C



CAST GRINDING CYLPEBS

Hot rolling steel cylpebs

1.型号 size

型号 Size (mm)	20x30	25x35	30x40	35x45	40x50	45x55	50x60	55x65	60x70
直径偏差(mm) Tolerance of diameter					±1				
长度偏差(mm) Tolerance of length					±2				

2.化学成分 Chemical composition

牌号 Brand	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni(%)
45#	0.42-0.50	0.17-0.37	0.50-0.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
60Mn	0.57-0.65	0.17-0.37	0.70-1.00	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
65Mn	0.62-0.70	0.17-0.37	0.90-1.00	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
B-2	0.70-0.80	0.17-0.37	0.70-0.80	0.50-0.60	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30

3.技术规范 Technical specification

牌号 Brand	破碎率 Breakage rate	硬度(HRC) Hardness	冲击值(J/c m ³) Impact value	跌落次数 Drop times
45#	<1%	≥45	≥12	≥8000
60Mn	<1%	≥55	≥12	≥12000
65Mn	<1%	≥58	≥12	≥12000
B-2	<1%	≥60	≥12	≥15000

GRINDING RODS

1.直径长度公差 Tolerance of diameter and length

直径 Diameter(mm)	长度(mm) Length	直径公差(mm) Tolerance of diameter	长度公差(mm) Length of diameter
50-150	2000-6000	-1.8	-20

2.化学成分 Chemical composition

牌号 Brand	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni(%)
45#	0.42-0.50	0.17-0.37	0.50-0.80	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
60Mn	0.57-0.65	0.17-0.37	0.70-1.00	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
65Mn	0.62-0.70	0.17-0.37	0.90-1.00	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
40Cr	0.37-0.45	0.17-0.37	0.50-0.8	0.80-1.1	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
42CrMo	0.38-0.45	0.17-0.37	0.50-0.80	0.90-1.2	0-0.03	0.15-0.25	0-0.035	0-0.035	0-0.30

3.技术规范 Technical specifications

冲击值(J/c m ³) Impact value	硬度 (HRC) Hardness	断棒率 Breakage rate	落棒次数 Drop times	直线度 Straightness
5-7	45-55	<1%	≥10	2/1000



CORE ADVANTAGES

CUSTOMIZED RAW MATERIALS

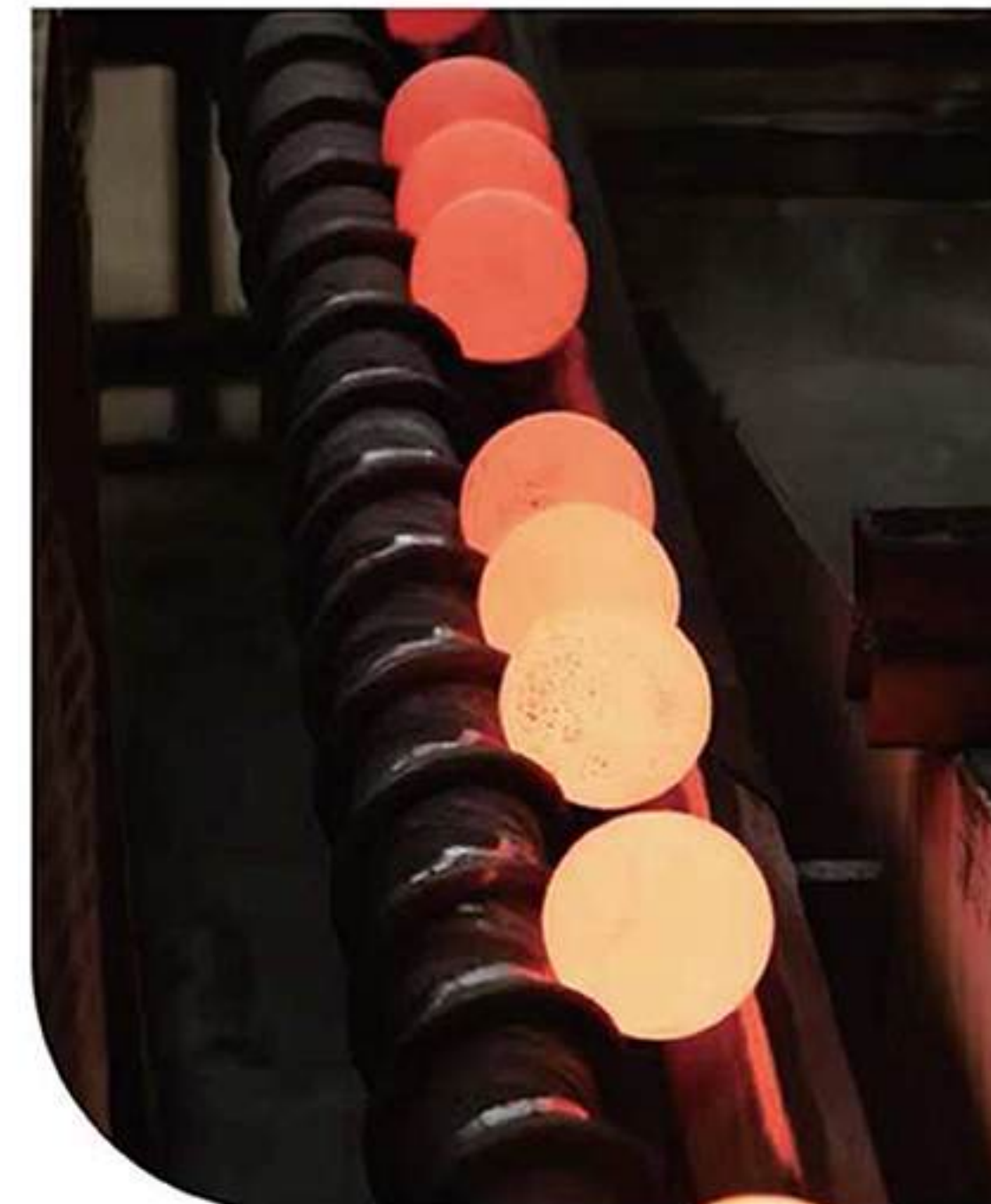


Since its establishment, adhering to the development concept of "quality first, honesty a win-win situation", the company has deeply ploughed the field of wear-resistant products, guided by market demand, driven by scientific and technological innovation, and continued to invest in research and development, improve products, optimize services, enhance value, and gradually build a differentiated competitive advantage.



ADVANCED AUTOMATED PRODUCTION LINES

Advanced automated production lines ensure the high efficiency, low cost and stability of product production. The performance indicators of the company's core products have exceeded the industry standards and domestic similar products.



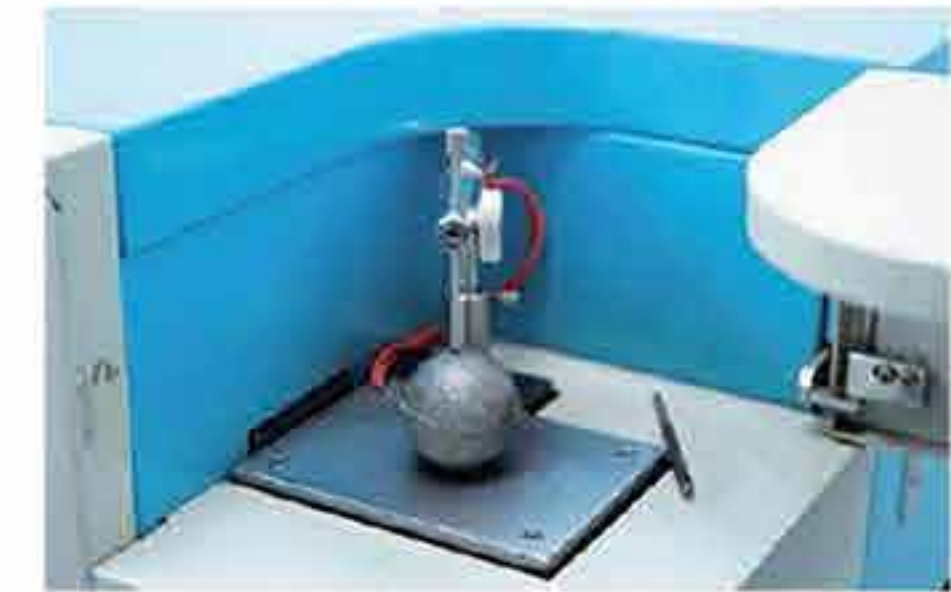
MATCHING HEAT TREATMENT PROCESS

Match different heat treatment processes based on different raw materials and product characteristics to achieve optimal product performance.

QUALITY CONTROL



SAPMLE RETENTION



SEPCTRAL ANALYSIS



WIRE CUTTING



FALLING BALL TEST



HARDNESS TEST



TEMPERATURE DETECTION DURING PRODUCTION

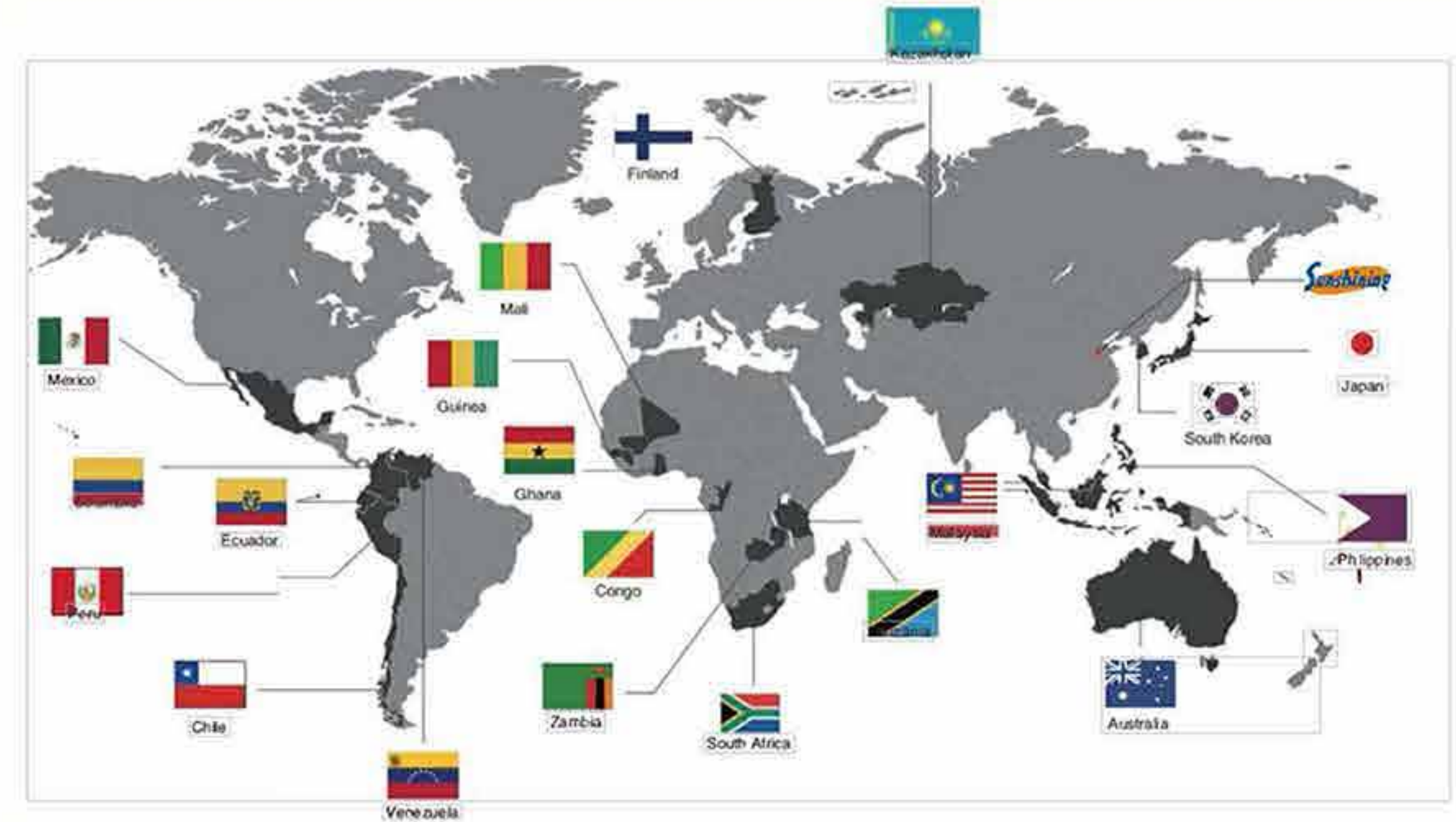


IMPACT TEST

PACKING AND DELIVERY



SALES NETWORK





THANK YOU

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