

# HIGH CHROME CASTING GRINDING BALLS



- **Diameter:** 10mm-160mm **Hardness:** 46-65HRC **Breakage Rate:** <0.5%
- The life of high chrome balls are 2-3 times of forged balls.
- We produce the strong microscopic structure, for good performance.

## CHEMICAL COMPOSITIONS

Item	Type	Chemical Composition								
		C	Si	Mn	Cr	Mo	Cu	Ni	P	S
High Chrome Casting Iron Ball	MWCr20	2.0 - 3.0	≤ 1.0	0.5 - 1.5	18 - 22	0 - 2.5	0 - 1.2	0 - 1.5	≤ 0.10	≤ 0.10
	MWCr15	2.0 - 3.0	≤ 1.0	0.5 - 1.5	14 - 17	0 - 3.0	0 - 1.0	0 - 1.5	≤ 0.10	≤ 0.10
	MWCr13	2.0 - 3.0	≤ 1.0	0.5 - 1.5	11 - 14	0 - 1.0	0 - 2.0	0 - 1.5	≤ 0.10	≤ 0.10
Medium Chrome Casting Iron Ball	MWCr7	2.1 - 3.2	0.5 - 2.2	0.5 - 1.5	6 - 10	0 - 1.0	0 - 0.8	0 - 1.5	≤ 0.10	≤ 0.10
Low Chrome Casting Iron Ball	MWCr2	2.2 - 3.6	≤ 1.2	0.5 - 1.5	1.0 - 3.0	0 - 1.0	0 - 0.8	-	≤ 0.10	≤ 0.10
Bainite Ductile Casting Iron Ball	MWSi3	3.2 - 3.8	2.0 - 3.5	2.0 - 3.0	-	-	-	-	≤ 0.10	≤ 0.03

## SIZES

Item	Size													
	17	20	25	30	40	50	60	70	80	90	100	110	120	130
Diametric Tolerance	+1.0	-1.0		+2.0	-1.0			+3.0	-1.0			+3.5	-1.5	
Difference between max diameter and min diameter	≤ 1.0			≤ 2.0				≤ 3.0				≤ 4.0		

## MECHANICAL PROPERTIES

Item	Type	Surface Hardness		Endurance Impact Test (Times)
		Quenched	Non Quenched	
High Chrome Casting Iron Ball	MWCr20	≥ 56	≥ 45	≥ 8000
	MWCr15	≥ 56	≥ 45	≥ 8000
	MWCr13	≥ 56	≥ 49	≥ 8000
Medium Chrome Casting Iron Ball	MWCr7	-	≥ 48	≥ 8000
Low Chrome Casting Iron Ball	MWCr2	-	≥ 45	≥ 8000
Bainite Ductile Casting Iron Ball	MWSi3	≥ 50	-	≥ 8000