

## FORGED GRINDING BALLS



- **Diameter:** 20mm-165mm (4/5" to 6½" approx.)
- The raw material we use is of high quality bar
- High end heat treatment technology, based on our 25 years of metallurgical experience guarantees a long wear life.
- We cater for SAG mills and Ball mills.
- We provide a "tough surface" to "tough core"

### SPECIFICATIONS

Nominal Diameter	Diametrical Tolerance	Average Weight of Single Ball	Surface Hardness	Impact Toughness
mm	mm	g	HRC	J/cm <sup>2</sup>
20	+2 -1	32	60-65	≥12
25	+2 -1	64	60-65	≥12
30	+2 -1	110	60-65	≥12
40	+2 -1	263	60-65	≥12
50	+2 -1	513	60-65	≥12
60	+3 -2	888	60-65	≥12
70	+3 -2	1410	60-65	≥12
80	+3 -2	2104	60-65	≥12
90	+3 -2	2996	60-65	≥12
100	+3 -2	4110	60-65	≥12
110	+4 -2	5457	58-63	≥12
120	+4 -2	7102	58-63	≥12
130	+4 -2	9030	58-63	≥12
140	+4 -3	11278	55-60	≥12
150	+4 -3	13871	55-60	≥12

### CHEMICAL COMPOSITIONS

Item	Material	C	Mn	Si	Cr	S	P
MW-1	50Mn	0.48-0.56	0.7-1.0	0.17-0.37	≤ 0.25	≤ 0.035	≤ 0.035
MW-2	60Mn	0.57-0.65	0.7-1.0	0.17-0.37	≤ 0.25	≤ 0.035	≤ 0.035
MW-3	65Mn	0.60-0.70	0.9-1.2	0.17-0.37	≤ 0.25	≤ 0.035	≤ 0.035
MW-4	75MnCr	0.70-0.85	0.7-0.8	0.17-0.37	0.20-0.60	≤ 0.030	≤ 0.030
MW-5	B2-1	0.55-0.70	0.65-0.85	0.15-0.30	0.7-1.10	≤ 0.020	≤ 0.020
MW-6	B3	0.58-0.66	0.68-0.8	1.7-1.9	0.78-0.9	≤ 0.030	≤ 0.030
MW-7	B6	0.75-0.9	0.8-1.02	0.17-0.37	0.88-0.98	≤ 0.035	≤ 0.035