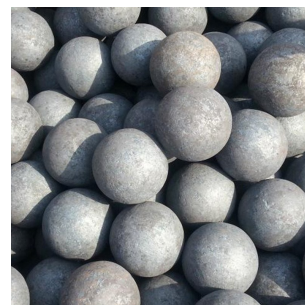


Forged Steel Grinding Balls 20-150 mm

Product datasheet - grinding media and wear parts

Our factory is a leading Chinese manufacturer of forged steel balls, specializing in the R&D and production of grinding media. Its forged steel balls enjoy a strong reputation in domestic and international markets, particularly in industries such as mining, cement, and power generation.

The factory has fully automated forging lines combined with modern heat treatment technologies (e.g., continuous quenching and tempering processes), ensuring uniform and dense internal grain structures in the steel balls. This achieves an optimal balance between hardness and toughness.



Specifications

Diameter (mm)	30	40	50	60	70	80	90	100	110	120	125	150
Diameter roundness(mm)	+/-2	+/-2	+/-2	+/-2	+3, -2	+3, -2	+3, -2	+4, -3	+4, -3	+4, -3	+4, -3	+5, -4
Roundness(%)	<=2	<=2	<=2	<=2	<=3	<=3	<=3	<=4	<=4	<=4	<=4	<=5

Technical Parameter

Material	Breakage rate	Hardness(HRC)	Impact value(J/cm2)	Drop times(times)	Micro structure
45#	<1%	>=55	>=12	>=12000	M+C
60Mn	<1%	>=55	>=12	>=12000	M+C
65Mn	<1%	>=58	>=12	>=12000	M+C
70Mn	<1%	>=60	>=12	>=12000	M+C
40Cr	<1%	>=55	>=12	>=12000	M+C
70Cr2	<1%	>=58	>=12	>=12000	M+C
B-2	<1%	>=58	>=12	>=15000	M+C
B-3	<1%	>=60	>=12	>=15000	M+C

Chemical composition

Material	C (%)	Si (%)	Mn (%)	Cr (%)	Cu (%)	Mo (%)	P (%)	S (%)	Ni(%)
45#	0.42-0.50	0.17-0.37	0.5-0.80	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	0.70-1.0	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	0.90-1.0	0-0.25	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30
70Mn	0.67-0.75	0.17-0.37	0.90-1.20	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
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
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
B-3	0.58-0.66	1.2-1.6	0.65-0.80	0.70-0.90	0-0.25	0-0.30	0-0.035	0-0.035	0-0.30

Ordering notes

Minimum order, lead time and packing are confirmed against the size mix or drawing in your enquiry. Each shipment carries a test report with chemistry, hardness, impact value and breakage rate for the heat. Payment terms: T/T with 30% deposit, or irrevocable L/C at sight. Shipping: FOB Qingdao, CIF or DAP.

Ordering and technical support

Send the mill type, media size or liner drawing, quantity and destination port. We reply with a quotation, packing plan and lead time within 12 hours.

SHANDONG GRINDIUM CO., LTD.

+86-155-0650-6266 | sales@grindium.com | www.grindium.com

8th Floor, Building 1, Mengda Industrial Park, Aosen Road, Liaocheng, Shandong, China

Product page:

<https://grindium.com/products/mill-grinding-ball/forged-grinding-ball/forged-steel-grinding-balls-20mm-to-150mm/>

