Medium Chrome Cast Grinding Balls (Cr 8-12%)

Product datasheet - grinding media and wear parts

Medium Chrome Alloy Cast Grinding Balls offer a balance between hardness, toughness, and cost-effectiveness.

Medium chrome cast balls sit between low chrome and high chrome: enough chromium for abrasive clinker, at a price that suits plants running a high ball charge.

Diameter tolerance■

Diameter (mm)	Φ<30	30<Φ<60	60<Φ<80	80<Φ<100	Φ>100
Diameter tolerance(mm)	+1,-1	+1.5,-1	+2,-1	+2.5,-1	+3,-1

Technical specification ■

Material	Diameter(mm)	Hardness(HRC)	Breakage rate	Impact value(J/cm2)	Drop times(times)	Micro structure
ZQCr5	17-150	>47	<1%	>2	>=10000	M+C

Chemical composition

Material		Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)
ZQCr5	C	Si	Mn	Cr	Mo	Cu	Ni	P	S
2.1-3.3	1.5max	0.3-1.5	4.0-6.0	0-1.0	0-0.8	-	<=0.10	<=0.10	

Typical applications

Moderate Hardness - Hardness ranges from 48-58 HRC, lower than high-Cr balls but higher than low-Cr balls.; Balanced Wear Resistance - Offers better wear resistance than low-Cr balls but slightly lower than high-Cr balls.; Improved Toughness - Less brittle than high-Cr cast balls, reducing the risk of breakage in high-impact applications.; Corrosion Resistance - Performs well in both wet and dry grinding conditions.; Heat Treatment - Quenching and tempering improve wear resistance and mechanical properties..

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.
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Product page:
https://grindium.com/products/mill-grinding-ball/cast-grinding-balls/medium-chromium-cast-iron-grinding-balls/

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