High Chrome Cast Grinding Balls (Cr 18-26%)

Product datasheet - grinding media and wear parts

High Chromium Cast Grinding Balls are a premium type of cast grinding media known for their superior wear resistance and durability.

High chrome cast balls hold hardness at the surface and through the section, which is why they outlast forged media in abrasive cement and mineral circuits where impact is moderate.

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 Gr.	Diameter(mm)	Hardness(HRC)	Breakage rate	Impact value(J/cm2)	Drop times(times)	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

Chemical composition

Brand	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)	Chemical composition(%)
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

Typical applications

Material Composition - Typically contain 10-32% chromium (Cr), along with carbon (C), manganese (Mn), and molybdenum (Mo) for enhanced properties.; High Hardness - Achieve 58-68 HRC, providing excellent resistance to wear and deformation.; Superior Wear Resistance - High Cr content forms hard carbides, significantly reducing wear in grinding applications.; Good Corrosion Resistance - Ideal for wet grinding and acidic environments, such as mineral processing.; Brittleness - More brittle than low-Cr or forged grinding balls, requiring proper heat treatment to balance hardness and toughness..

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.

Specifications are typical values and may be adjusted to the mill and ore. Printing is permitted; modification and resale of this document are not.

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/high-chromium-cast-iron-grinding-balls/

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