

CAST GRINDING BALLS

Chemical Composition

While we manufacture round bars in various sizes, our quenching and tempering furnace for grinding rods is designed to heat treat sizes of 80 mm and 100 mm, with a maximum length of 5 m. Additionally, in response to market demands, we typically produce steel rods using 70Cr2 or 100Cr6 alloys, unless otherwise specified by our clients.

Similar to our grinding balls, the heat treatment process for steel rods employs the well-known quench and temper method. However, specific details in the heat treatment process require expertise and skill to optimize wear resistance and milling efficiency. MAKCO has a dedicated team of heat treatment specialists and metallurgists who adjust parameters based on the raw materials and the end-users' applications.

Length and diameter tolerances adhere to internationally recognized standards. We supply grinding rods in standard packaging of 2-3 MT aunales witnin Zo containers.

Depending on the application, MAKCO provides cast balls with varying chromium content to cement and mineral processing plants to ensure that your facilities meet the required hardness and wear resistance properties.

Culpobe Bpobs and liners are addntional wear-resistamt casting components that we can provide in various sizes and chemical compositions. For optimal results, feel free to consult our technical team regarding your specific requirements!

Grade	%C	%Si	%Mn	%Cr	%Ni	%P	%S Max	%S Max	Size(mm)
Cr12	2.5-3.5	0.3-0.1	0.3-0.7	10-12	<0.5	<0.5	0.08	60-66	15-17.5-20-25
Cr 14	2.5-3.3	0.5-1	0.3-0.7	12-14	<0.5	<0.5	0.08	60-64	30-35-40-50
Cr 17	1.8-2.6	0.5-1.1	0.3-0.7	15-17	<0.5	<0.5	0.08	58-62	60-70-80-90-100-125
Cr 31	2-2.8	0.5-1	0.3-0.7	29-31	<0.5	<0.5	0.08	58-62	30-40-50
Cr 1.5	3.3-3.9	0.5-1	0.3-1	0.5-1.5			0.08	Min.48	25-30-35-40-50-60-80-100