



Overview

Tungsten carbide mill ball is made of hard alloyed materials. It has advantages of high hardness, good abrasion resistance, anti-corrosion, anti-bending and adaptable to tough working environment.



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Feature

1. Main ingredient of tungsten carbide ball is WC-CO, which owns high hardness and good abrasion resistance. Its toughness is better than YG6 alloy ball. There also are other good anti-impact and anti-vibration components.
2. High density: Its hardness reaches 15.1g/cm³, little porosity, extra abrasion resistance and anti-corrosion, ten times of life cycle than common tungsten steel ball.

3. High precision: less than 0.001mm tolerance. Smooth and shining surface without pocking mark, because it has been processed by strengthening treatment which is Tencan's unique manufacturing technology.
4. Small lot production is acceptable.

Parameters of Tungsten Carbide Balls

Model No.	Yg6	Yg6X	Yg8	Yg10	Yg15
WC %	94	94	92	90	85
CO %	6	6	8	10	15
Density(g/cm3)	14.5-14.9	14.6-15	14.5-14.9	14.3-14.7	13.9-14.2
Hardness HRA	89.5	91	89.5	89.5	87
Abrasion resistance Hardness N/cm3	1380	1500	1600	2200	2100

Element Analysis of Tungsten Carbide Balls

General Specification	
Main Material	Tungsten Carbide -WC-YG6
Chemical Composition	
Element	Share %
Tungsten carbide (WC)	94
Cobalt (Co)	6
Physical and mechanical properties	
Bending strength	2600 TRS N/mm2
Hardness	92.1 HRA

