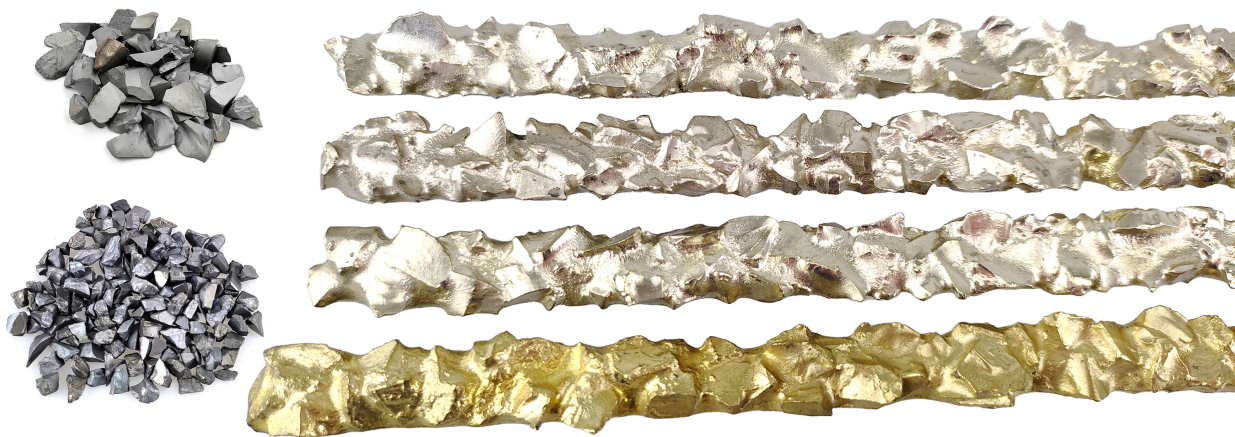


Composite Rod

CEMENTED CARBIDE TOOLS



Zhuzhou Weikedu Cemented Carbide Co.. LTD.

ADDRESS: Building B, Smart Cube, No. 460, Jinshan Road, Hetang
Zhuzhou City, Hunan Province, China

Phone: +86 137 8633 2019 +86 186 7080 5093

Wechat&WhatsApp: +86 137 8633 2019 +86 177 0056 1536

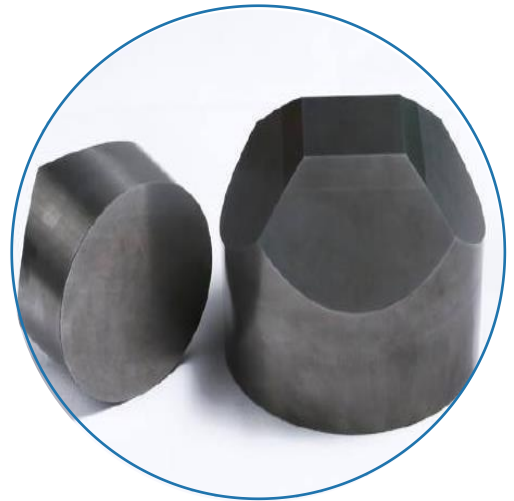
Email: cathy@weikeduocarbide.com

admin@weikeduocarbide.com

Product Introduction

Tungsten Carbide Composite Rod is made by sintering crushed particles of cemented carbide with Nickel-based alloy or Copper-based alloy. The sharp cemented carbide crushed particles have good wear resistance and cutting (grinding) ability.

As one of the hard surface materials, the cemented carbide composite rod is widely used. Mainly used for surfacing welding, petroleum, mining, coal mine, geology, construction and other industries with severe wear or cutting workpieces. Typically used in downhole tools such as boreholes, hole openers, waste disposal plants, milling tools, fishing tools, centralizers, etc.



The crushed particles of our company's tungsten carbide composite rod are all made of top hammer material, and the product composition is consistent to ensure stable product performance.

The particles screening method independently developed by our company ensures that our crushed particles are multi angular and makes the product more wear-resistant. The use of high-quality solder ensures the fluidity of our rods, easy to weld, and helps customers improve production efficiency.

Chemical Composition

Grade	Chemical Composition (Wt%)			
	Ni+Cu+Zn+Sn	Cu+Zn+Sn	WC	Co
Cu-30	--	30 ± 2	63-65	5.2-6.0
Cu-40	--	40 ± 2	53-56	4.6-4.8
Cu-45	--	45 ± 2	48-52	4.2-4.5
Cu-50	--	50 ± 2	44-48	3.8-4.2
Ni-Cu-30	30 ± 2	--	63-65	5.2-6.0
Ni-Cu-40	40 ± 2	--	53-56	4.6-4.8
Ni-Cu-45	45 ± 2	--	48-52	4.2-4.5
Ni-Cu-50	50 ± 2	--	44-48	3.8-4.2

Specification

	Metric (mm)	Inch
Grain Size	0.4-1.6	1/64"-1/16"
	1.6-3.2	1/16"-1/8"
	3.2-4.8	1/8"-3/16"
	4.8-6.4	3/16" -1/4"
	6.4-8.0	1/4"-5/16"
	8.0-9.5	5/16"-3/8"
	Special Shape	
Length	Weight	Width
280mm	250g-290g	10-12mm
450mm	450g-480g	14-16mm

Hardness 87-90 HRA

Customize Particle Contents is Welcome



Welding Point

- 900-1050 °C
- (1000-1100°C for with Nickel)

Density

- 12.5-13.0 g/cm³

Hardness

- 87-90 HRA

