

Solid Carbide Rod



Introduction

Solid carbide rod is mainly made of tungsten carbide, binder metal cobalt and some other functional ingredients added as formula requires, through materials mixture, extruding, pre-sinter, shape modification producing process then sintered in low pressure. With characters of high hardness, high strength, chemical stable, low expansion coefficient, electric and heat conducting, the sintered tungsten carbide rods are widely applied in industrial manufacture area, for example, to make micro drill in PCB industry, electrode bar in optical community industry, drill, drill stock, tip, pusher, wear resistant precision parts, CNC reamer and blades with coolant hole in machining industry.

As a carbide depot, Toonney [tungsten metal plant factory](http://www.tncarbide.com) manufactures a large range of tungsten alloy including solid rods, rods with straight/spiral coolant hole, shaped rods according customer's requirement and T shaped etc.

Solid tungsten carbide rods, no coolant ducts inside. We have 10 grades formula material for most common use, for example, rods for PCB micro drill, micro milling cutter, [carbide saw blade](#), drills to machining aluminum alloy, copper base alloy, steel base alloy and wolfram carbide etc. We strictly control the quality in each necessary step, we can say good quality is one of advantages which makes us stand in this industry.

Wolfram carbide: [Wolfram carbide](#) is a compound composed of wolfram and carbide. It is a black hexagonal crystal with metallic luster, of which hardness is similar to diamond. Wolfram carbide is good conductor of electric and heat, can not dissolve in water, hydrochloric acid or sulfuric acid, but easily to dissolve in mixed solution of nitric acid and hydrofluoric acid. Pure wolfram carbide is fragile, but adding titanium or cobalt and sintered, the roughness will be much higher. Wolfram carbide is also called tungsten carbide.

Tungsten metal/Tungsten metallic: Tungsten is also called wolfram, the most form of tungsten metal in industrial application is tungsten carbide. [Toonney tungsten metal factory](#) has produced solid carbide rods for many years and gets good reputation at home and abroad.

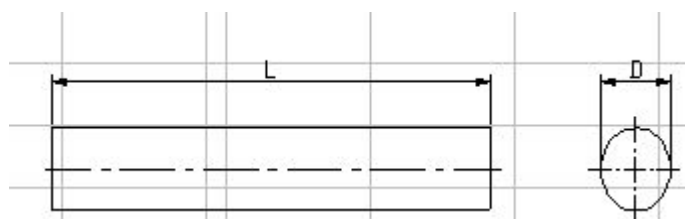
Packaging Details: Plastic bag, then protected in foam lay, finally to an outer carton.

Samples Matters: Solid carbide rods which can be available from our common regular inventory, can be offered as samples for free. For solid carbide rods with irregular customer special required, will be charged. Of course, customers need to pay for the shipping fee. Usually, the lead time of the samples will be within 7 working days.

Minimum Order Quantity: There is no minimum order quantity of solid carbide rods for the first trial order. But on the second order, the total amount of solid carbide rods should be not less than 1000 USD.

Delivery Time: 7-15 working days

Specification





Dia. Ø mm	Tolerance. (mm)	Length (mm)	Tol. (mm)	Dia.Ø (mm)	Tolerance. (mm)	Length (mm)	Tol. (mm)
2.0	+0.30/+0.15	330	1.5	16.5	+0.8/+0.3	330	1.5
2.5	+0.30/+0.15	330	1.5	17.0	+0.8/+0.3	330	1.5
3.0	+0.50/+0.30	330	1.5	17.5	+0.8/+0.3	330	1.5
3.5	+0.50/+0.30	330	1.5	18.0	+0.8/+0.3	330	1.5
4.0	+0.50/+0.30	330	1.5	18.5	+0.8/+0.3	330	1.5
4.5	+0.50/+0.30	330	1.5	19.0	+0.8/+0.3	330	1.5
5.0	+0.50/+0.30	330	1.5	19.5	+0.8/+0.3	330	1.5
5.5	+0.50/+0.30	330	1.5	20.0	+0.8/+0.3	330	1.5
6.0	+0.50/+0.30	330	1.5	20.5	+0.8/+0.3	330	1.5
6.5	+0.50/+0.30	330	1.5	21.0	+0.8/+0.3	330	1.5
7.0	+0.50/+0.30	330	1.5	21.5	+0.8/+0.3	330	1.5
7.5	+0.50/+0.30	330	1.5	22.0	+0.8/+0.3	330	1.5
8.0	+0.50/+0.30	330	1.5	22.5	+0.8/+0.3	330	1.5
8.5	+0.50/+0.30	330	1.5	23.0	+0.8/+0.3	330	1.5
9.0	+0.60/+0.30	330	1.5	23.5	+0.8/+0.3	330	1.5
9.5	+0.60/+0.30	330	1.5	24.0	+0.8/+0.3	330	1.5
10.0	+0.60/+0.30	330	1.5	24.5	+0.8/+0.3	330	1.5
10.5	+0.60/+0.30	330	1.5	25.0	+0.8/+0.3	330	1.5
11.0	+0.60/+0.30	330	1.5	25.5	+0.8/+0.3	330	1.5
11.5	+0.60/+0.30	330	1.5	26.0	+0.8/+0.3	330	1.5
12.0	+0.60/+0.30	330	1.5	26.5	+0.8/+0.3	330	1.5
12.5	+0.60/+0.30	330	1.5	27.0	+0.8/+0.3	330	1.5
13.0	+0.60/+0.30	330	1.5	27.5	+0.8/+0.3	330	1.5
13.5	+0.60/+0.30	330	1.5	28.0	+0.8/+0.3	330	1.5
14.0	+0.70/+0.30	330	1.5	28.5	+0.8/+0.3	330	1.5
14.5	+0.70/+0.30	330	1.5	29.0	+0.8/+0.3	330	1.5
15.0	+0.70/+0.30	330	1.5	29.5	+0.8/+0.3	330	1.5
15.5	+0.70/+0.30	330	1.5	30.0	+0.8/+0.3	330	1.5
16.0	+0.70/+0.30	330	1.5	30.5	+0.8/+0.3	330	1.5



Feature

Product name: [Solid carbide](#) rod
Place of Origin: Fujian, China (Mainland)
Brand Name: Toonney
Model Number: DIN Cut-to-length Rods
Type: Tungsten metal, Carbide rods
Material: tungsten carbide
Application: end mills, drills, shank,reamers
Tolerance: As above table shows
Surface treatment: Blank, polished or mirror polishing
Grade: TU06, TF06, TU08, TU40, TU40F, TU44, TU25, TU45
Size: As required.
Port: Xiamen
Payment terms: FOB Xiamen

Application

Applications of solid [carbide rods](#) includes drill bits, cutting tool industry, PCB tools, end mills,dies, punches, blades, drills and reamers, core pins, hole drilling tools, paper industry, polymer extrusion as well as gear cutting. Besides, customized diameters and length are also available in these grades as well as metric sizes. Tungsten carbide rods are mostly applied for end mill and drill with sub-micron grain grade YG10X, for non-ferrous precision cutting and wood cutting with Sub-micron grain grade YG6X, and for fiberglass reinforced plastics, titanium alloys, hardened steel with Ultra-fine grain grade YG8X, etc.

Advantage

1. Toonney wolfram carbide plant applies high quality solid carbide with good wear resistance, high hardness and impact toughness.
2. Toonney tungsten metal manufacturer can offer competitive price and various grades of solid carbide rods.
3. Solid carbide rods produced by Toonney carbide depot factory have a long operating life.
4. Toonney solid [carbide depot plant](#) uses 100% tungsten metallic virgin raw material with sub-micron grain size.
5. Toonney wolfram carbide factory has top line technique.
6. Toonney wolfram carbide manufacturer has a promise for strict quality control.
7. Toonney solid carbide depot manufacturer has excellent after-sales service.
8. [Tungsten metallic](#) material produced by Toonney tungsten meal plant has an outstanding chemical stability.