



## Article Side

From Ball Pens to Meteorological Research, Tungsten Carbide has Many Uses by [Nathan Syngrem](#)

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Tungsten carbide is a metal that has multiple uses across industries. For instance, the ball point pens that we use often have a tip comprising a miniscule tungsten carbide ball. Apart from this, these balls are also used in various industrial applications. They are used in everyday tasks such as measuring the radius size or a pitch diameter of a screw thread. Additionally, they are widely used in calibrating various instruments that are used for inspection of hardness and thickness of various materials. These little components are also referred to as ball gages in engineering parlance.

How are tungsten carbide bearings made?

The process of making these balls is rather advanced. That's because these balls are manufactured through sintering. As we know, sintering is the process through which powders are coalesced into a solid mass at a high temperature. In this case, the metal powder is subjected to a very high amount of temperature and pressure to make balls of varied sizes. This is what makes these balls extremely hard and tough to crack or break. Though they cost slightly more than any other types of gages or balls, they are definitely worth the investment.

What are the advantages of tungsten carbide balls?

- \* These balls are inert and hence do not react when exposed to different alloys or liquids. This makes them suitable for use in different manufacturing and processing industries.
- \* These balls are much stronger than other varieties such as stainless steel and chrome. Hence they are exceptionally useful in heavy machinery related applications. They are used in calibration processes with accurate results.
- \* In various industries like petroleum and mining, where drilling plays a critical role, there is a demand for such balls.
- \* These days, many of these balls are manufactured using computerized platforms. This makes it possible to achieve accuracy to the maximum level. These balls can be made in sizes ranging from a part of a millimeter to larger diameters. Since they are so strong, these balls show very little wear and tear even when they are used over a long period of time.
- \* In meteorology as well, these ball gages have proven useful. Since this metal is so stable, it is used for reference standards for research.
- \* In the agricultural sector, carbide bearings are used in a valve at the orifice of sprays to control the amount of fertilizer being sprayed on crops. The valve can be adjusted to control the amount of pesticide being sprayed.

It is advisable to always purchase tungsten carbide products from a reputed manufacturer having extensive experience. By doing this, you can be assured of quality and competitive pricing.

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