

# TUNGSTEN CARBIDE POWDER

Stock No: NS6130-05-580



# WC



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## Tungsten Carbide Powder

Tungsten carbide (WC) is a chemical compound containing equal parts of tungsten and carbon atoms. Tungsten carbide is a fine gray powder, but it can be pressed and formed into shapes for use in industrial machinery, cutting tools, abrasives, armor-piercing rounds. Tungsten carbide has very high strength for a material so hard and rigid.

Compressive strength is higher than virtually all melted and cast or forged metals and alloys; and is two to three times as rigid as steel and four to six times as rigid as cast iron and brass. High resistance to deformation and deflection is very valuable in those many applications where a combination of minimum deflection and good ultimate strength merits first consideration. For such a hard material with very high rigidity the impact resistance is high because it is in the range of hardened tool steels of lower hardness and compressive strength.

## Quick Facts

Product	:	Tungsten Carbide Powder
Color	:	Gray/black Powder
Stock No	:	NS6130-05-580
CAS	:	12070-12-1
Purity	:	>99.9%
APS	:	<50µm

## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
WC	195.85 g/mol	15.6 g/cm <sub>3</sub>	2800 °C

## Applications

- Corrosion resistance
- Hydrogen storage capability
- High temperature storage capability
- Metallurgy industry, aerospace industry

ISO 9001:2015  
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