

# Tungsten Carbide Powders

Kennametal manufactures tungsten carbide powders by controlled carburization of hydrogen-reduced tungsten powder. Our tungsten carbide powder is produced under stringent quality control and subjected to adequate testing. We produce large uniform batches of high purity WC powder with varying average particle sizes ranging from 0.5µm to 50.0µm for manufacturers of cemented tungsten carbide powder and parts.

We manufacture tungsten carbide powder that is used to make cemented tungsten carbide powder and thermal spray hardfacing powder. The mixture of tungsten carbide, cobalt and wax powders is pressed and sintered into various carbide shapes that are used as steel cutting inserts and wear components. Thermal spray powders are used in automobile, aerospace, oil & gas industries and beyond.

## Typical Physical Properties

Product Type	Material Master #	FSSS, µm	Purity*	C <sub>total</sub>	Scott Density (g/in <sup>3</sup> )	O <sub>2</sub> (%)
KWC08 <sup>f</sup>	6395478	0.6 - 1.0	≥99.95%	6.08 - 6.15	25 - 45	<0.20
KWC13 <sup>f</sup>	6395479	1.0 - 1.6	≥99.95%	6.08 - 6.15	30 - 50	<0.15
KWC20 <sup>f</sup>	6395480	1.7 - 2.3	≥99.95%	6.08 - 6.15	40 - 60	<0.10
KWC26 <sup>f</sup>	6395521	2.3 - 2.9	≥99.95%	6.08 - 6.15	40 - 60	<0.10
KWC32	6395522	2.9 - 3.5	≥99.95%	6.08 - 6.15	45 - 85	<0.08
KWC40	6395523	3.5 - 4.5	≥99.95%	6.08 - 6.15	55 - 90	<0.08
KWC50	6395524	4.5 - 5.5	≥99.95%	6.08 - 6.15	55 - 90	<0.05
KWC80	6395525	6.0 - 10.0	≥99.95%	6.08 - 6.15	65 - 100	<0.05
KWC130	6395526	10.0 - 16.0	≥99.95%	6.08 - 6.15	75 - 120	<0.02
KWC190	6395527	16.0 - 22.0	≥99.95%	6.08 - 6.15	85 - 125	<0.01
KWC250	6395528	22.0 - 28.0	≥99.95%	6.08 - 6.15	90 - 150	<0.01

Custom products and solutions available upon request.  
Standard Product Datasheets are available upon request.

F Flammable Hazard Rating for DOT shipping.

\* Purity: Tungsten by difference excluding gasses.

Information provided in this document is intended only for general guidance about Kennametal® products and is the best information in our possession at the time. Product users may request information about their individual use of our products, but Kennametal® does not warrant or guarantee this information in any way. Selection and purchase of Kennametal® products is the sole responsibility of the product user based on the suitability of each use. Individual applications must be fully evaluated by the user, including compliance with applicable laws, regulations, and non-infringement. Kennametal® cannot know or anticipate the many variables that affect individual product use and individual performance may vary. For these reasons, Kennametal® does not warrant or guarantee advice or information in this document, assumes no liability regarding the same, and expressly disclaims any warranty of any kind, including any warranty of fitness for a particular purpose, regarding the same. Kennametal™ is a registered trademark of Kennametal Inc.

## Contact Us

k-hntv.inside-sales@kennametal.com  
Tel: +1 888 777 6852



kennametal.com