

POWDERS

CONVENTIONAL TUNGSTEN CARBIDE POWDERS

TECHNICAL DATA

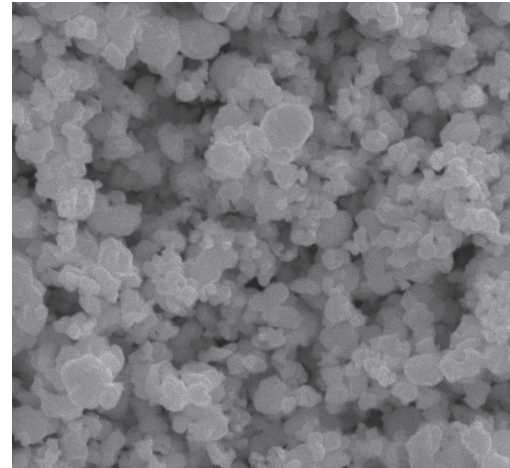
PRODUCT DESCRIPTION

Kennametal manufactures high-quality tungsten carbide powders by carburizing tungsten powders produced in our tungsten oxide reduction process.

Kennametal's conventional WC powders provide a homogeneous hard metal grain structure with high lot-to-lot uniformity that translates into consistent functional properties. Powders are available as fine-, medium-, and coarse-grained cuts.

APPLICATIONS

Hard metal-cutting tools (i.e., dies, inserts, end mills, drills), mining and road construction tools, hot working tools and dies, wear parts, thermal spray powder(s), and graded powder(s).



Conventional Tungsten Carbide 100x SEM

TYPICAL PHYSICAL PROPERTIES

Grade Name	Product Code (Material Master)	FSSS (µm)	Purity ¹	Total Carbon	Total Oxygen	Scott Density g/in ³
KWC08 ^F	6395478	0.6–1.0	≥99.95%	6.08–6.15	<0.20	25–45
KWC13 ^F	6395479	1.0–1.6			<0.15	30–50
KWC20 ^F	6395480	1.7–2.3			<0.10	40–60
KWC26 ^F	6395521	2.3–2.9			<0.10	40–60
KWC32	6395522	2.9–3.5			<0.08	45–85
KWC40	6395523	3.5–4.5			<0.08	55–90
KWC50	6395524	4.5–5.5			<0.05	55–90
KWC80	6395525	6.0–10.0			<0.05	65–100
KWC130	6395526	10.0–16.0			<0.02	75–120
KWC190	6395527	16.0–22.0			<0.01	85–125
KWC250	6395528	22.0–28.0			<0.01	90–150

Kennametal's conventional WC can be made available in wide variety of sizes and cuts. Products, cuts, blends, and/or customized solutions are available upon request.

^F Flammable Hazard Rating for DOT shipping.

¹ Purity: Tungsten by difference excluding gases.

PACKAGING

Product typically ships in 55-lb. (25-kg) or 551-lb. (250-kg) metal drums.

Kennametal manufactures sophisticated materials, solid carbide, alloy castings, and machined parts that resist wear, corrosion, and abrasion. 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. 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.

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