

Standard Tungsten Carbide Powders

Kennametal manufactures high-quality tungsten carbide powders by carburizing tungsten powders produced in its tungsten oxide process. We produce fine, medium and coarse grained tungsten carbide (WC) powders. Kennametal fine-grained WC powders are used to make hard metal cutting tools, dies, end mills and drills, while its medium and coarse-grained WC powders are used primarily in mining and road construction tools, hot working tools, rolls and metal cutting applications. WC powders provide a homogeneous hard metal grain structure with lot-to-lot consistency that translates into consistent functional properties.

Typical Physical Properties

Product Type	Material Master #	FSSS, μm	Purity*	C _{total}	Scott Density (g/in ³)	O ₂ (%)
KWC08 ^F	6395478	0.6 - 1.0	≥99.95%	6.08 - 6.15	25 - 45	<0.20
KWC13 ^F	6395479	1.0 - 1.6	≥99.95%	6.08 - 6.15	30 - 50	<0.15
KWC20 ^F	6395480	1.7 - 2.3	≥99.95%	6.08 - 6.15	40 - 60	<0.10
KWC26 ^F	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.

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