

Standard Tungsten Carbide Powders

TECHNICAL DATA



DESCRIPTION

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

APPLICATIONS

Kennametal produces fine, medium and coarse grained tungsten carbide (WC) powders. Kennametal's 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. Kennametal's 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 As supplied	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.



PACKAGING

Material in pails or drums is packed in polyethylene bags inside the following containers:

- 3.5 gallon pail (up to 25 kg per container).
- 17 gallon metal drums (up to 250 kg per container) by special request on large orders.

TERMS

All prices are in U.S. Dollars per Kilogram.

Prices are valid for 15 days and are subject to change without notice.

Shipping terms are Ex-Works Kennametal Facility, Alabama, U.S.A.

CONTACT

Please contact Kennametal's customer service group with inquiries or about larger or customized orders.

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