

POWDERS

READY-TO-PRESS POWDERS FOR METAL CUTTING

TECHNICAL DATA

PRODUCT DESCRIPTION

Kennametal produces world class ready-to-press, spray-dried powders for use in carbide metal cutting tools. Depending on the cutting application, powder grades are available with varying binder compositions and grain growth inhibitors for optimal performance. All of Kennametal's graded powders are produced under strict manufacturing guidelines, which helps to eliminate cross-contamination and improve reproducibility.

Cemented Tungsten Carbide Grades for Cutting Tool Blanks and Engineered Components										Common Applications						
	GWC	Grain Family	Industry Classification	Cobalt Content (wt. %)	Other Carbides TiC	Grain Growth Inhibitors	Hardness (HRA)	Density (g/cm ³)	Coercivity (Oe)	Turning	Milling	Drilling	Threading	Grooving	Round Tools	STB and Tips
Grades for Machining Cast Irons, Non-Ferrous Alloys, Woodworking, etc.	20	Fine	C2 K10-K30	5.5	3	—	92.4	14.8	240	•			•	•		•
	16	Fine	C2 K10-K30	5.5	0.8	—	92.2	14.9	235	•			•	•		•
	1	Submicron	C4 K05-K20 M10-M20	6	—	—	93	14.85	325						•	•
	167	Fine	C3 K05-K20 M10-M20	6	—	—	92.8	14.85	300	•	•	•	•	•	•	
	13	Fine	C2 K10-K30	6	—	—	92	14.9	225	•	•	•	•	•		•
	196	Submicron	C2 K20-K30 M25-M40	10	—	Cr/VC	91.8	14.4	270		•	•			•	•
	15	Medium	C1/C11 K30-K50	11	1	—	89.7	14.3	165		•	•				
	203	Ultrafine	C3 K15-K25 M10-M25	12	—	Cr/VC	92.5	14.15	380						•	•
	216	Submicron	—	13	—	VC	91	14.15	240		•					
	36	Medium	C1/C11	13	0.7	—	88.6	14.15	130		•	•				
5	Submicron	C1 K40-K50	15	—	VC	90.5	14	250						•	•	
Steel Cutting Grades	72	Medium	C6 P15-P25	5.5	7.5	—	91.4	13.8	160	•	•	•	•	•		
	71	Medium	C7 P10-P20	7	11	—	92	12.75	175	•	•		•	•		
	60	Coarse	C6 P25-P40	7	7.5	—	91	13.7	170	•				•		
	70	Medium	C6 P20-P35	8.5	16.4	—	91.4	12.15	150	•	•	•	•	•		
	77	Coarse	C5/C6 P25-P40	8.5	7.5	—	90.5	13.55	135	•		•		•		
	69	Medium	C6 P20-P30	10	16.6	—	91.2	12.2	160		•	•				
	214	Medium	C5 P30-P45	11	9.0	—	90.3	13.05	—	•		•		•		

*Refer to GWC number when ordering.

*Custom powder sizes, grades and/or formulations can be made available upon request.

*Powders typically contain a 2.2% paraffin binder.

PACKAGING

Product ships in 10-kg plastic buckets.

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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