

POWDERS

READY-TO-PRESS POWDERS FOR METAL FORMING

TECHNICAL DATA

PRODUCT DESCRIPTION

We produce ready-to-press, spray-dried powders. We offer more than 800 individual grades, with an average of 50 or more separate grades produced each month. We can produce large varieties of graded powder under strict manufacturing guidelines, which helps to eliminate cross-contamination and improve reproducibility.

	GWC	Grain Family	Industry Classification	ISO Code	Cobalt Content (wt. %)	Hardness (HRA)	Density (g/cm ³)	Coercivity (Oe)	Porosity	Common Applications
Metal Forming Grades	36	Medium	C11/C12	—	13.0	88.6	14.15	130	A02, B02-24, C00	Stamping dies, compacting dies (severe), bronze, copper, can die rings, metal forming dies, draw dies (severe), slitter rings, razor blade dies, coining dies, drill bits
	5	Submicron	C1	K40	15.0	90.5	14.00	250	A02, B00-24, C00	Stamping dies for razor blades, electronic stamping, lead frame dies, laminations, spring steel stampings, crush rolls, coining dies (hard metal); not good for stamping thick stainless
	49	Extra Coarse	C14	G40	20.0	84.5	13.60	80	A02, B00-24, C00	Header dies, washer dies, light-heavy blanking up to .062" steel, crushing hammers, rivet sets, backward or forward extrusion dies, heavy piercing punches
	86	Extra Coarse	C14	—	25.0	83.0	13.10	70	A02, B00-24, C00	

*Refer to GWC Number when ordering.

*Standard and customer-specific formulas available.

*Mesh screening available upon request for additional fee.

*Typical binders: 2.2% paraffin binders.

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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