

# POWDERS

## READY-TO-PRESS POWDERS FOR WEAR, OIL & GAS, AND MINING

TECHNICAL DATA

### PRODUCT DESCRIPTION

Kennametal produces world-class, ready-to-press, spray-dried powders for use in a variety of wear-resistant parts. Depending on the applications, 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 help eliminate cross-contamination and improve reproducibility.

	GWC	Grain Family	Cobalt Content (wt. %)	Other Carbides TiC (Ta, Nb) C	Hardness (HRA)	Density (g/cm <sup>3</sup> )	Coercivity (Oe)	Common Applications
Wear Grades	59	Fine	6	<6.0	91.5	14.2	220	Ore handling, coal crushing, pump liners, pug mill paddles, plow blades, etc.
	160	Fine	6	9	93.3	13.05	150	Corrosion applications, tiles for centrifuges
	75	Submicron	6% Ni	—	90.5	14.95	—	Seal rings, valves, nozzles, sleeves, bearings, cola processing, food processing
	76	Submicron	10% Ni	—	90	14.5	—	
	26	Coarse	11.5	—	88.3	14.35	120	Various wear applications
	30	Medium	10	—	89.1	14.5	130	
	50	Coarse	15	—	86	14	80	Rod mill rolls, heading dies, wear parts subject to heavy impact
	55	Coarse	18	—	84	13.7	55	Rod mill rolls
Oil & Gas and Mining Grades	10	Medium	6	—	91	14.95	170	DTH bit inserts
	209	Coarse	6	—	89	14.95	105	Long dome extensions for conical and ballistic shapes
	230	Medium	6	—	90.6	14.95	155	Nozzles
	11	Medium	8	—	90.3	14.65	155	DTH bit inserts
	63	Medium	9	—	89.9	14.6	160	Nozzles
	22	Coarse	10	—	87.9	14.5	90	Buttons for rotary tricon bits, inserts for percussive bits, geophysical tips for drag bits
	30	Medium	10	—	89.1	14.5	130	
	26	Coarse	11.5	—	88.3	14.35	120	
	24	Coarse	12	—	87.8	14.25	120	

\*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 typically ships in 22-lb. (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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