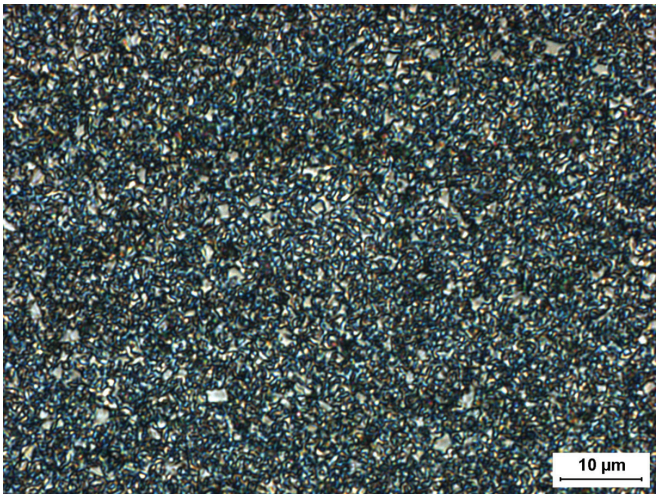
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-0004



Microstructure

Composition	
Tungsten Carbide (Fine)	89.0%
Cobalt	7.0%
Tantalum Carbide	4.0%

Physical Properties	
Hardness, HRA (ASTM B294)	91.7 - 93.2
Density, g/cc (ASTM B311)	14.65 - 14.87
Average Transverse Rupture Strength, psi (ASTM B406)	465,000
Typical Porosity (ASTM B276)	A02-B00-C00

PERFORMANCE CHARACTERISTICS

	LESS ■ ■ ■ ■ □ MORE
Wear Resistance	■ ■ ■ ■ □
Impact Resistance	■ □ □ □ □
Galling Resistance	■ ■ ■ ■ □
Corrosion Resistance	■ ■ □ □ □

To ensure the highest metallurgical quality, General Carbide processes all grades in sinter-HIP furnaces.

Grade Attributes

The fine particle size of the carbide grains coupled with the low binder content ensures excellent resistance to abrasive wear. The presence of the tantalum carbide addition (4%) provides a high resistance to galling/adhesive wear.

Typical Applications

> Punches
> Dies
> Cutters
> Forming tools
> Bushings
> Miscellaneous Wear Parts

Please visit our website for the latest grade specification information.

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