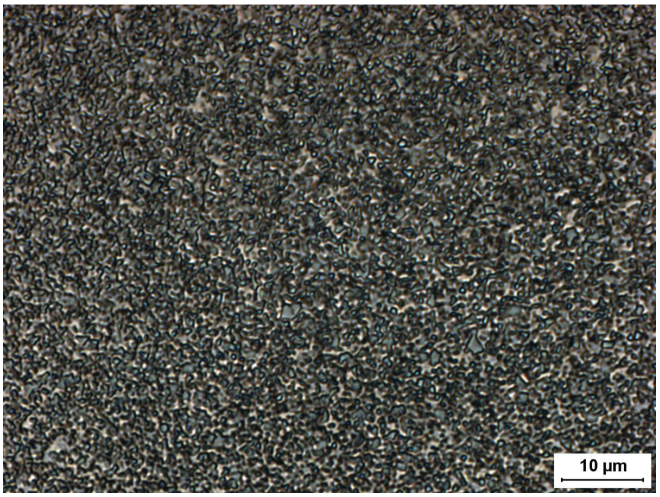
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-015



Microstructure

Composition	
Tungsten Carbide (Submicron)	85.0%
Cobalt	15.0%

Physical Properties	
Hardness, HRA (ASTM B294)	89.4 - 91.0
Density, g/cc (ASTM B311)	13.82 - 14.05
Average Transverse Rupture Strength, psi (ASTM B406)	535,000
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 submicron grain size of tungsten carbide particles coupled with the 15% binder content provides a wear resistant grade capable of withstanding moderate impact loads. .

Typical Applications

> Blanking Dies and Punches
> EDM Blanks
> Rotary Tool Blanks
> Rings

Please visit our website for the latest grade specification information.

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