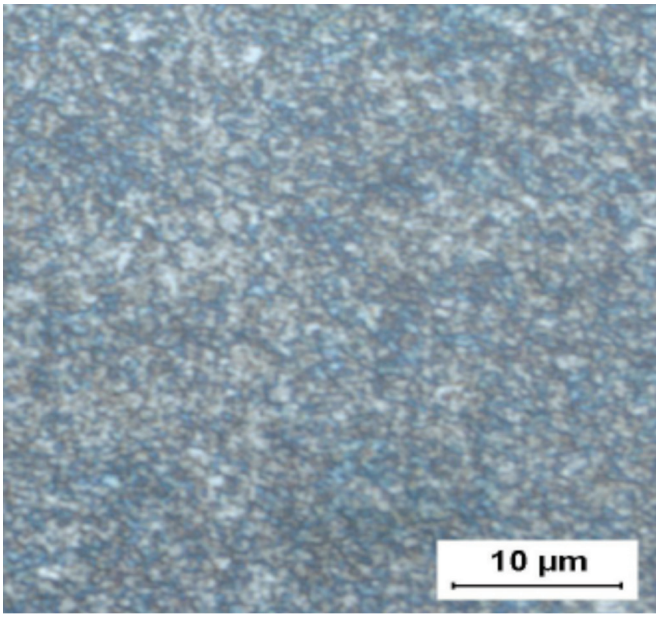
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-004F



Microstructure

Composition	
Tungsten Carbide (Ultrafine)	95.5%
Cobalt	4.5%

Physical Properties	
Hardness, HRA (ASTM B294)	94.0 - 95.5
Density, g/cc (ASTM B311)	14.73 - 15.01
Average Transverse Rupture Strength, psi (ASTM B406)	435,000
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 ultrafine submicron grain size coupled with the low binder content provides a very hard and exceedingly wear resistant grade. Whereas this grade has a relatively low resistance to mechanical and thermal shock, it exhibits a moderate corrosion resistance due to lower binder content.

Typical Applications

> Saw Blanks
> Wear Sleeves
> Cutters
> Crush Rolls
> Rods
> Rings
> Grit Blast Nozzles
> Liners
> Bushings
> Knives
> Miscellaneous Wear Parts

Please visit our website for the latest grade specification information.

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