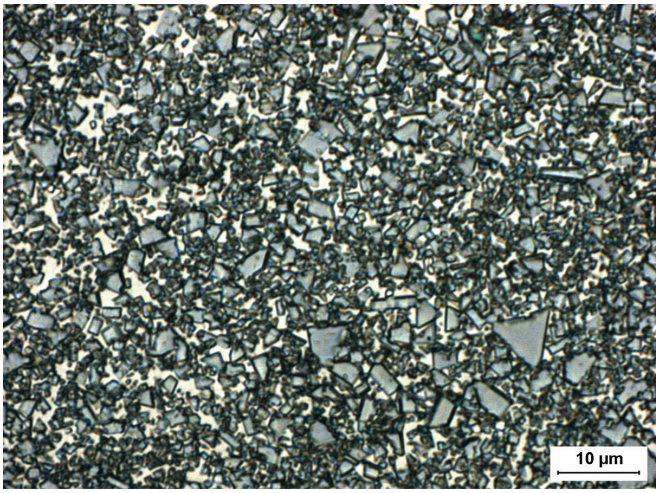
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-315



Microstructure

Composition	
Tungsten Carbide (Medium)	85.0%
Cobalt	15.0%

Physical Properties	
Hardness, HRA (ASTM B294)	87.8 - 90.3
Density, g/cc (ASTM B311)	13.85 - 14.15
Average Transverse Rupture Strength, psi (ASTM B406)	520,000
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 medium carbide particle size coupled with the medium binder content provides a high strength grade with moderate wear resistance and the capability to withstand moderate impact loads.

Typical Applications

> Metalforming Punches & Dies
> Tube Drawing Inserts
> Extrusion Die Inserts
> Powder Metal Dies & Core Pins
> EDM Blanks
> Rings
> Mandrels
> Bushings

Please visit our website for the latest grade specification information.

GENERALCARBIDE®

1151 Garden Street
Greensburg, PA 15601-6417 USA

T 800.245.2465 • 724.836.3000
F 800.547.2659 • 724.836.6274

sales@generalcarbide.com
www.generalcarbide.com