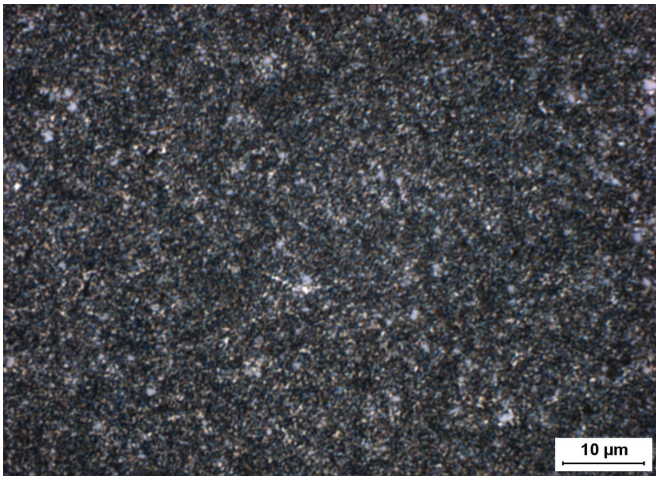
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-010CR



Microstructure

Composition	
Tungsten Carbide (Submicron)	89.0%
Cobalt	10.0%
Other	1.0%

Physical Properties	
Hardness, HRA (ASTM B294)	91.9 - 93.4
Density, g/cc (ASTM B311)	14.12 - 14.38
Average Transverse Rupture Strength, psi (ASTM B406)	530,000
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 lower binder content provides a very hard and erosion resistant wear grade. The presence of a corrosion-resistant additive ensures superior protection against corrosion.

Typical Applications

> EDM Blanks
> Concrete Forming Dies
> Rotary Tooling
> Powder Metal Dies and Core Pins
> Oil/Gas Valve Components and all 10% sub-micron applications where corrosion/erosion resistance is required
> High-Speed Rotary Cutting Dies

Please visit our website for the latest grade specification information.

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