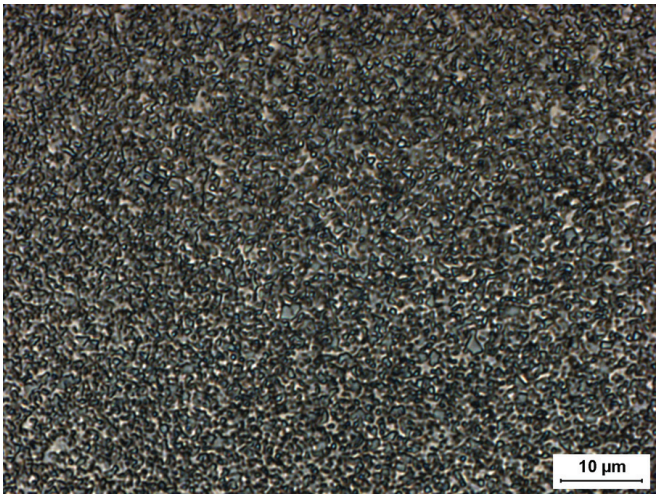
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-015CR



Microstructure

Composition	
Tungsten Carbide (Submicron)	84.0%
Cobalt	15.0%
Other	1.0%

Physical Properties	
Hardness, HRA (ASTM B294)	90.5 - 92.2
Density, g/cc (ASTM B311)	13.73 - 13.88
Average Transverse Rupture Strength, psi (ASTM B406)	550,000
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 carbide grain size, coupled with the medium binder content, provides a mechanically strong grade with moderate impact and wear resistance. The presence of an anticorrosion additive ensures efficient protection against leaching of the binder material.

Typical Applications

> EDM blanks
> Concrete-forming dies
> Stamping Dies plus applications with high resistance to wear and to moderate mechanical shocks where, in addition, efficient corrosion protection against binder leaching is required.

Please visit our website for the latest grade specification information.

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