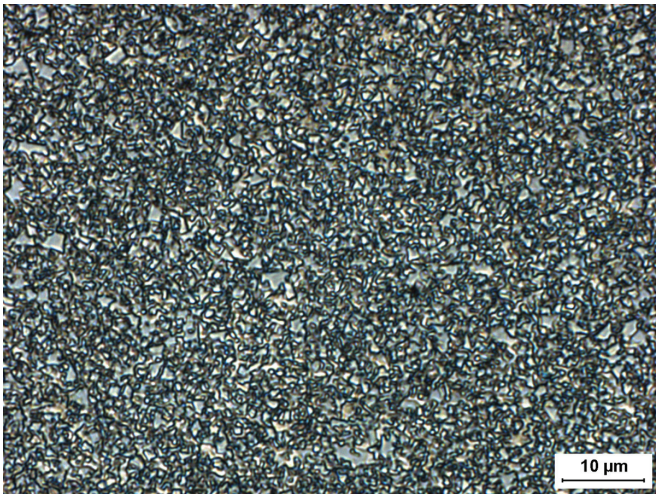
GENERALCARBIDE®
SHAPING YOUR SUCCESS

GRADE DATA SHEET

GC-N121



Microstructure

Composition	
Tungsten Carbide (Fine)	88.0%
Nickel	12.0%

Physical Properties	
Hardness, HRA (ASTM B294)	87.5 - 89.5
Density, g/cc (ASTM B311)	14.25 - 14.45
Average Transverse Rupture Strength, psi (ASTM B406)	410,000
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 fine carbide grains coupled with the medium binder content creates a grade that exhibits moderate wear resistance while exhibiting the ability to resist impact loads. The nickel-based binder provides efficient resistance to corrosion at room and elevated temperatures.

Typical Applications

> Can Tooling Components
> Seal Rings
> Rings
> Bushings

Please visit our website for the latest grade specification information.

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