

**Description**

Tungsten carbide is a high performance material formed from tungsten and carbon. Its most outstanding property is its hardness, which approaches that of a diamond. It is primarily used in the production of a wide variety of industrial tools and wear parts that are subject to a great deal of stress. Harcourt uses Tungsten Carbide Grade C2.

Applications: Bushings, cutting tools, and high wear parts.

**Chemical Composition, %**

	WC	Co
MIN	93.5	5.5
MAX	94.5	6.5

**Physical Properties**

**Density:** 0.54 lb/in

**Grain Size:** Fine

**Modulus of Elasticity:** 93,000 ksi

**Maximum Useful Temp:** 800°F

**Mechanical Properties****Minimum Specified Properties**

Ultimate Tensile Strength, ksi	220
Ultimate Compressive Strength, ksi	750
Transverse Rupture Strength, ksi	340
Rockwell Hardness A (Ra)	89=92

**PROPRIETARY AND CONFIDENTIAL**

The entire content of this print is the sole property of Harcourt Industrial, Inc (Harcourt). You may not possess, use, copy or disclose this print or any information in it, for any purpose, including without limitation to design, manufacture, or repair parts, or obtain FAA or other government approval to do so, without Harcourt's express written permission. Neither receipt nor possession of this document alone, from any source, constitutes such permission. Possession, use, copying or disclosure by anyone without Harcourt's express written permission is not authorized and may result in criminal and/or civil liability.