TOOLS THAT WORK HARDER, FOR LONGER

Element Six’s high performance ABN900 reduces grinding forces at higher removal rates, for electroplated applications.
Element Six’s ABN900 is a high performance cubic boron nitride (CBN) grinding product designed especially for electroplated CBN tools.

**RELIABLE PRECISION AND DURABILITY**

For electroplated tool manufacturers, ABN 900’s high particle uniformity and surface purity provides:

- Improved precision and consistency
- Excellent bond retention

Strong, blocky and yet sharp particles, designed with micro-fracturing behaviour, enable electroplated CBN tools to deliver:

- Higher material removal rates
- Lower grinding forces
- Improved precision for a superior surface finish
- Longer tool life and less down time

**PROVIDING OVER 50% LONGER TOOL LIFE**

Reduced grinding forces allow for cooler cutting and limit damage to metallurgical parts - extending tool life for longer intervals between wheel changes.

**A WIDE RANGE OF APPLICATIONS IN AEROSPACE AND AUTOMOTIVE**

- Roughing of foundries and form/profile grinding
- Grinding of hardened, ferrous metals in Automotive engine and drive components, such as crankshafts, drive shafts, gears and valves
- Grinding of nickel-chromium-based superalloys in Aerospace components, such as turbine blades, nozzles, vanes, and turbine blade tipping

**CONSISTENT SHAPE AND SURFACE PURITY**

ABN 900 has a high degree of uniformity, displaying a blocky shape with sharp edges.

The uniform shape and surface purity of ABN 900 provides precision, consistency and excellent bond retention.

**GRAIN COMPARISON IN ELECTROPLATED WHEELS**

- Good adhesion of grain
- Controlled breakdown with self-sharpening effect
- Grains are wearing flat, increasing the contact area
- Lower grinding forces, longer tool life
- Higher forces, increasing the possibility of wheel breakdown and surface damage

**GRINDING FORCES PER VOLUME GROUNDED: ABN 900 VS. NEAREST COMPETITOR PRODUCT**

- ABN 900: 160%
- Competitor: 100%

**ABN 900 is available in a wide range of sizes**

- 25/30
- 325/400 US Mesh
- B711
- B46 FEPA

**FIND OUT MORE ABOUT OUR ABN**

Call: +353 61 460 146, Email: support@e6.com

www.e6.com/CBN

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