

ABN900

PRECISION GRINDING

ABN



TOOLS THAT WORK HARDER, FOR LONGER

————— *Element Six's high performance ABN900 reduces grinding forces at higher removal rates, for electroplated applications.*

elementsix[™]
a De Beers Group Company

ACCELERATE PRODUCTION WITH ABN900

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;

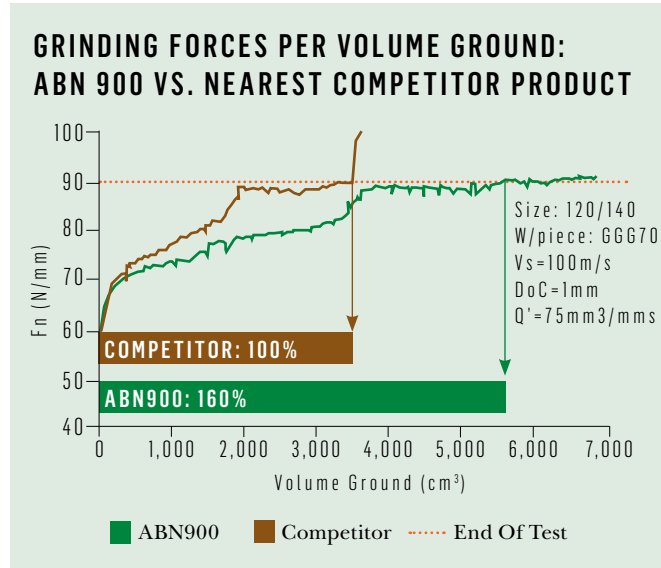
- Improved precision and consistency
- Excellent bond retention

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

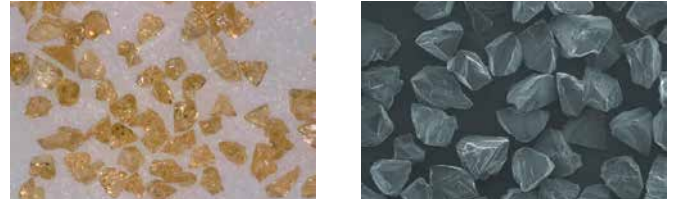
Reduced grinding forces allow for cooler cutting and limit damage to metallurgical parts - extending tool life for longer intervals between wheel changes.



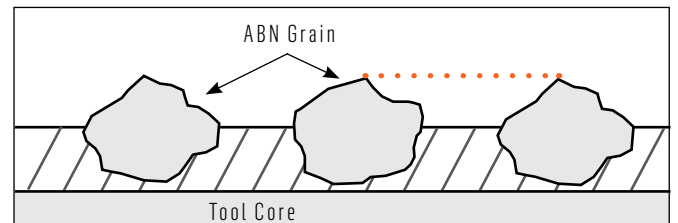
A WIDE RANGE OF APPLICATIONS IN AEROSPACE AND AUTOMOTIVE

- 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



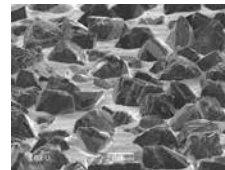
ABN 900 has a high degree of uniformity, displaying a blocky shape with sharp edges.



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

GRAIN COMPARISON IN ELECTROPLATED WHEELS

ABN 900
(Grain size 50/60)



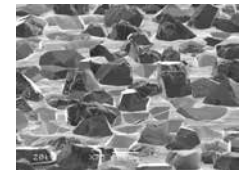
Good adhesion of grain



Controlled breakdown with self-sharpening effect

**LOWER GRINDING FORCES
LONGER TOOL LIFE**

COMPETITOR PRODUCT
(Grain size 50/60)



Poorer adhesion of grain



Grains are wearing flat, increasing the contact area

**HIGHER FORCES,
INCREASING THE POSSIBILITY
OF WHEEL BREAKDOWN AND
SURFACE DAMAGE**

ABN 900 is available in a wide range of sizes



FIND OUT MORE ABOUT OUR ABN

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