

# P.B.S.<sup>®</sup> & ELECTROPLATED SUPERABRASIVE WHEELS & TOOLS

At Abrasive Technology, we're focused on producing the best superabrasive grinding wheels and tools for your application needs.



P.B.S.<sup>®</sup> Roughing Wheel



## P.B.S.<sup>®</sup> BRAZE

First patented by Abrasive Technology in 1975, this original brazed bonding process uses a nickel chrome alloy to chemically bond superabrasive crystals to the substrate. This proprietary process promotes high diamond exposure with no stripping or peeling, allowing for:

- Aggressive tools that last longer, cut faster, run cooler and load less
- Exceptional speed and efficiency for composite applications
- Maximum exposure of diamond crystals, engineered for fast stock removal
- Machining tough-to-cut materials where fast stock removal and deep cuts are required
- Custom-manufactured tools in special non-standard sizes and forms for tight tolerances
- Stripping and recoating the core

Abrasive Technology recommends P.B.S.<sup>®</sup> tools for non-metallic materials like fiberglass, carbon fiber composites, friction material, FRP, graphite, graphite epoxy, honeycomb and other composites.

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## ELECTROPLATED

Electroplated bonds mechanically entrap diamond/cBN particles on the tool, making them ideal for:

- Manufacturing tight tolerance forms
- Freer cutting, resulting in higher material removal rates
- Holding form or profile from first cut to last cut
- Eliminating time associated with dressing
- Stripping and replating the core

Abrasive Technology recommends precision plated products for grinding materials, such as nickel-based superalloys, engineered ceramics, cobalt-based superalloys, ferrous alloys, WC (finishing operations) and tungsten carbide.



Seal Grinding Wheel