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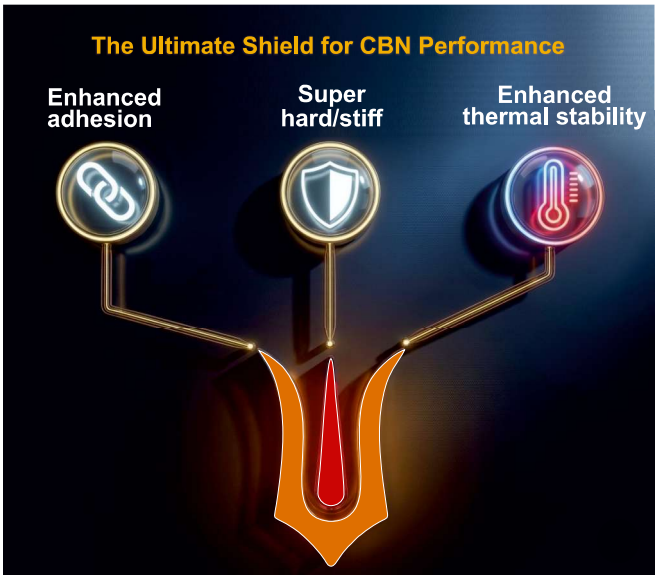
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Introducing

KAVACH Surface Solution

Inspired by the Sanskrit word **KAVACH**, meaning "**Shield**," our **next-generation surface solution**, is engineered with advanced CBN coating to protect where it matters most. **KAVACH** uniquely combines **exceptional hardness with outstanding toughness - two properties that rarely coexist in a single coating.**

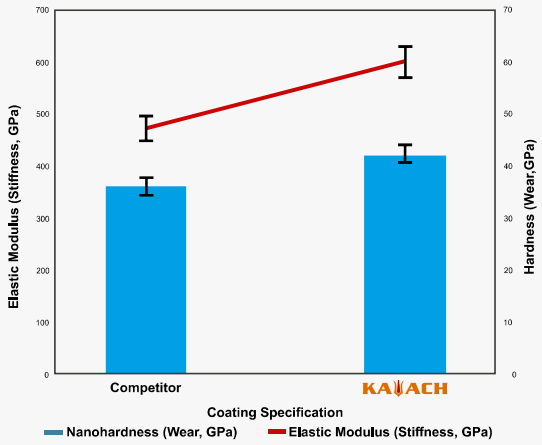
- **Shield Against Wear**
  Exceptional wear resistance for prolonged performance at high cutting temperatures.
- **Shield Against Breakage**
  Superior toughness minimizes edge chipping and unexpected insert failure.
- **Shield Against Short Tool Life**
  Long-lasting cutting edges deliver more components per insert and lower tooling costs.
- **Shield for Superior Surface Finish**
  Maintains cutting-edge integrity to produce consistent, high-quality surface finishes throughout tool life.



Not just a coating - it's an innovation in CBN Surface Engineering Technology

KAVACH doesn't just coat the cutting edge, it becomes an integral part of it. Its exceptional adhesion, verified through **indentation and scratch testing**, delivers lasting protection against delamination, enabling **superior wear resistance**, **longer tool life** and **uncompromised machining performance.**

Mechanical Properties



Kavach achieves a rare balance of high nano hardness and superior elastic modulus, delivering exceptional wear resistance, outstanding edge stability, and longer tool life in demanding machining applications.

Nano Scratch Test



Competitor



KAVACH

• Extensive coating damage	• Minimal coating damage
• Edge chipping observed	• No visible edge chipping
• Higher scratch-induced failure	• Superior scratch resistance.