

INSERT GRADES

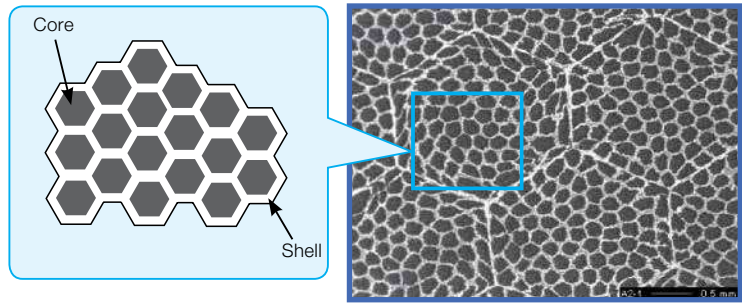
Honeycomb Structure CBN / CERAMIC

Honeycomb Structure CBN / CERAMIC

Honeycomb structure is the high structural controlled composite material consisting of a hard and superior wear-resistance core (gray portion) and a tough shell (white portion).

FEATURES

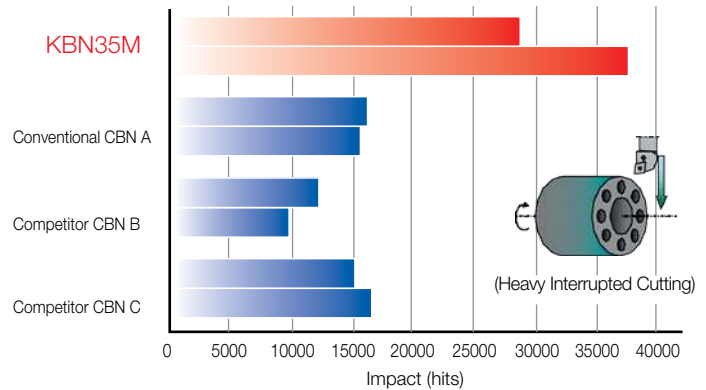
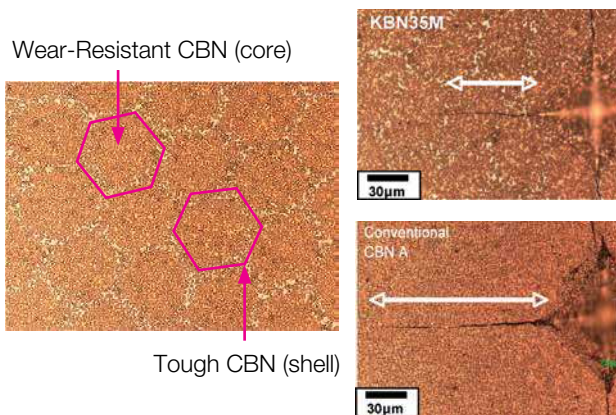
- Cell Fibers combine a hard, wear-resistant core and a tough shell into one insert.
- The tough shell stops cracks that form in the core.
- CBN is good for interrupted machining of exceptionally hard material and ceramic is good for heat-resistant alloys



| FEATURES OF CBN | | | | |
|-----------------------------------|-----------------------------|--------------|--------------------------------------|--|
| Material | Description | Color | Main Component (Coating Composition) | Advantages |
| H Hardened Materials | KBN35M (MEGACOAT) | Blackish Red | CBN | <ul style="list-style-type: none"> • Honeycomb structure CBN composite material consisting of wear resistant CBN (core) and tough CBN (shell) • Heat-resistant MEGACOAT on tough Honeycomb structure CBN • Application: Stable machining of hardened steel at interrupted machining |
| S Heat-Resistant Alloys | CF1 | Gray | Ceramic | <ul style="list-style-type: none"> • Honeycomb structure ceramic composite material consisting of wear resistant ceramic (core) and tough ceramic (shell) • Application: Machining of heat-resistant alloys like Ni-base heat-resistant alloys |

■ KBN35M (MEGACOAT Honeycomb Structure CBN)

- Tough CBN (Shell) Prevents Crack Growth



■ Application Map

