Cell Fiber

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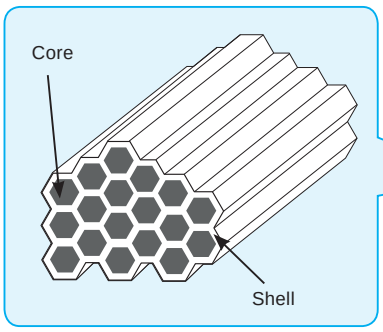
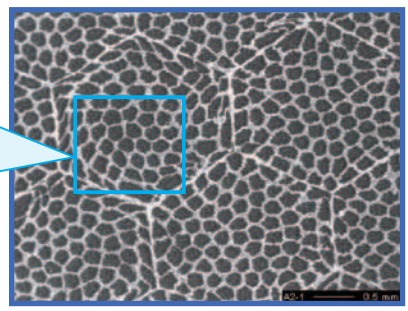
Cell Fiber is a composite material consisting of a fiber core (gray portion) and shell (white portion).





Features

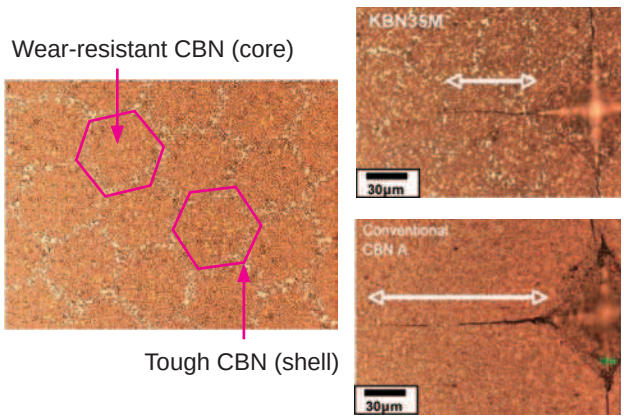
- Cell Fibers combine a hard, wear-resistant core and a tough shell into one insert.
- The tough shell stops cracks that form in the core.
- The characteristics of Cell Fiber are a result of the combination of materials and structures.

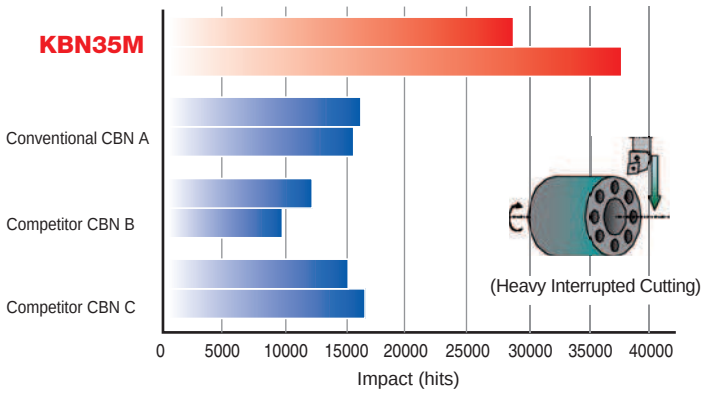
Features of Cell Fiber

Workpiece Material	Symbol	Color	Main Component	Advantages
H Hardened Materials	KBN35M (MEGACOAT)	Blackish red	CBN	• Cell Fiber CBN composite material consisting of wear resistant CBN (core) and tough CBN (shell) • Heat-resistant MEGACOAT on tough Cell Fiber CBN • Application: Stable cutting of hardened steel at interrupted range
S Heat-Resistant Alloys	CF1	Gray	Ceramic	• Cell Fiber ceramic composite material consisting of wear resistant ceramic (core) and tough ceramic (shell) • Application: Cutting of heat-resistant alloys like Inconel

KBN35M (MEGACOAT Cell Fiber CBN)

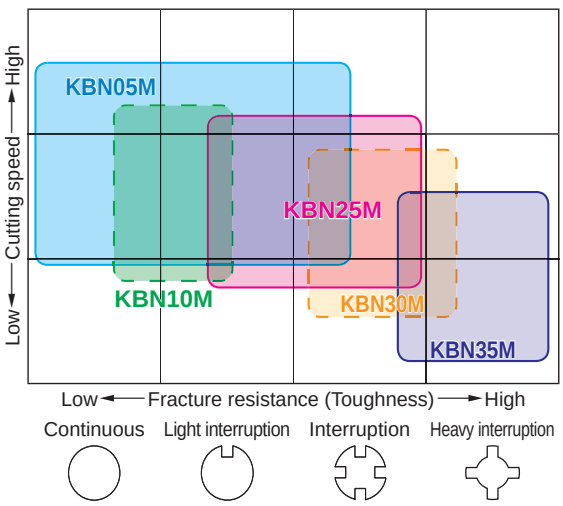
Tough CBN (shell) prevents crack growth





Application Map

Hardened Steel / Chilled Cast Iron



Heat-Resistant Alloys