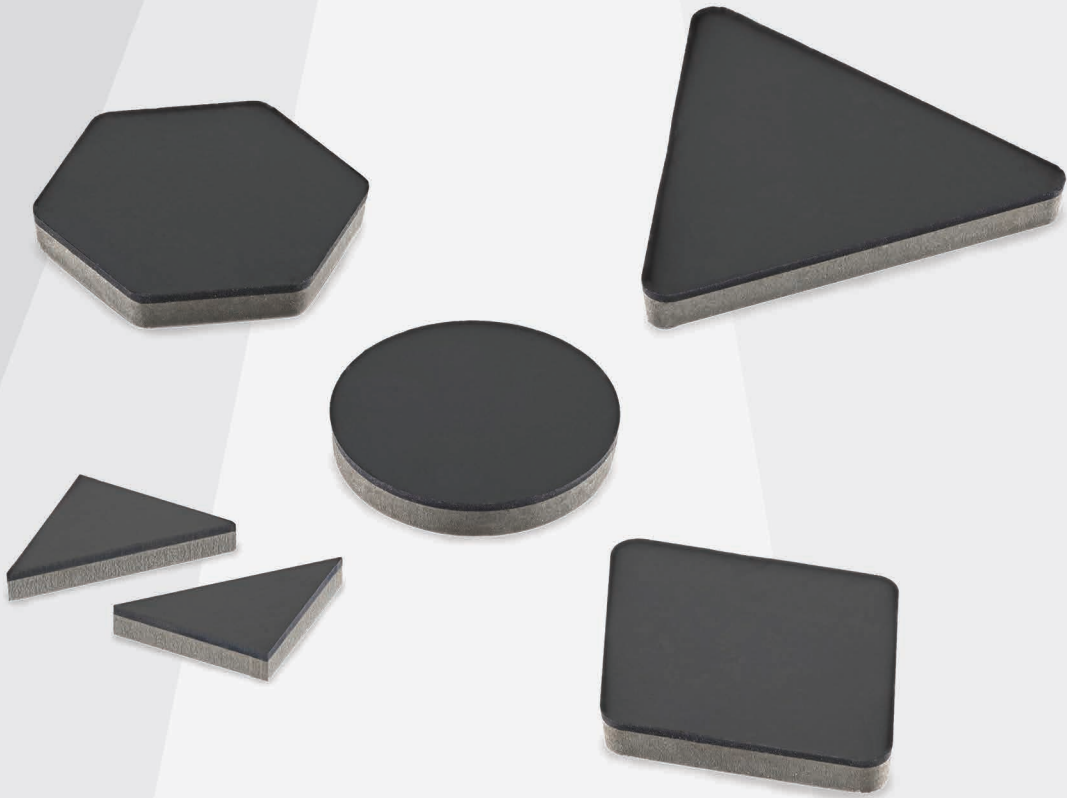


PRECISION MACHINING & FINISHING

PCD Metal Grades



LONGER TOOL LIFE & HIGH SURFACE FINISH

——— *Polycrystalline diamond grade CTB004 offers high abrasion resistance and surface finish in non-ferrous machining.*

CTB004

Offering high speed machining advantages, CTB004 delivers optimised workpiece surface finish in both engine and chassis applications.

The grade, which joins Element Six's market-leading product CMX850, is ideal for cutting of aluminium alloys where high surface finish is required alongside lower wear resistance.

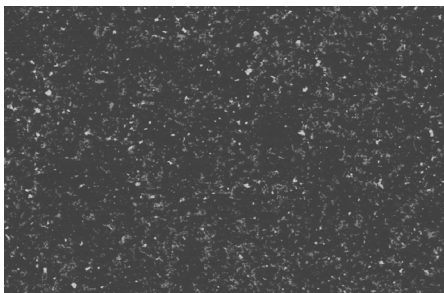
CTB004's 4 micron fine grain structure offers the addition to delivering the optimum balance between tool performance and resistance to abrasions and chips.

Ideal for complex machining requirements, CTB004 offers commercial advantages for end-users due to the reduction in downtime and improved productivity.

APPLICATIONS

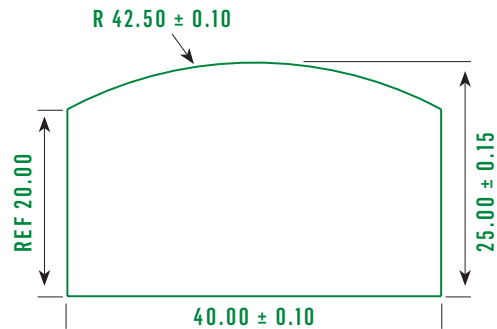
- Edge milling of aluminium case
- Turning applications where higher surface finish is required vs CTB010 for aluminium

CTB004 MICROSTRUCTURE

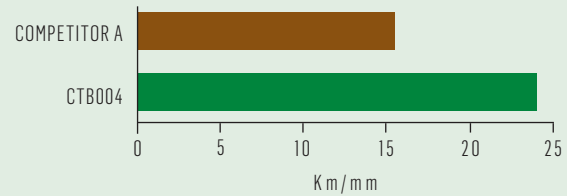


CTB004 at 1000 magnification 50µm

- CTB is a 4 micron PCD with excellent abrasion resistance
- Fills a gap in Element Six fine grain PCD Metal portfolio
- Segments available as part of 5 day segment service

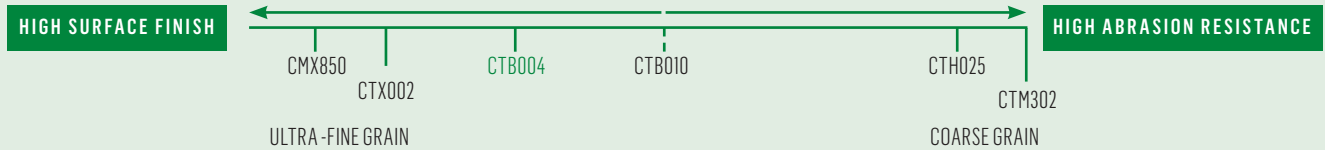


EXCELLENT ABRASION RESISTANCE VERSUS MAIN COMPETITOR



MMC Turning test

CTB004 POSITIONING



GRADE	STANDARD PCD LAYER	OVERALL HEIGHT	PCD LAYER THICKNESS (MM)	SEGMENTS OVERALL HEIGHT TOLERANCE (MM)	TILES OVERALL HEIGHT TOLERANCE
CTB004	0.3mm	1.6mm	0.20 to 0.45	+/- 0.025mm	Not available
	0.5mm	1.6mm	0.35 to 0.65	+/- 0.025mm	+0/-0.04mm

Abrasion resistance described as the inverse of wear rate, thus larger number shows greater abrasion resistance



FOR MORE INFORMATION

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