

PCBN

Polycrystalline Cubic Boron Nitride



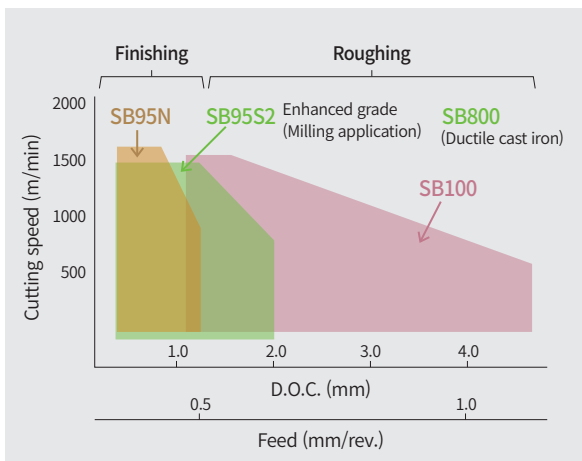
IBON

ILJIN Polycrystalline Cubic Boron Nitride

Carbide backed
 Solid form

	Type	Grade	Property	Application
High CBN content	■	SB100	Extreme wear resistance due to high content of coarse CBN grain	Rough machining of cast iron and powder metal alloys
	■	SB95S2	Extreme wear resistance and high chipping resistance due to high content CBN and fine CBN size	Machining most kinds of cast iron and powder metal alloy
	■	SB95N	Extreme wear resistance due to high content of CBN and metal binder	Machining most kinds of cast iron
	■	SB800	Combination of wear resistance and thermal properties	Machining non-homogeneous cast iron
Low CBN content	■ ■	SB700 SBS700	High degree of toughness due to fine CBN and ceramic binder matrix	Heavy interrupted machining of hardened steel
	■ ■	SB650 SBS650	Combination of wear resistance and thermal stability	High speed and interrupted machining of hardened steel
	■ ■	SB630 SBS630	Combination of wear resistance and impact strength	General use in continuous and light interrupted machining of hardened steel
	■ ■	SB600 SBS600	Combination of wear resistance and thermal stability	General use in continuous and light interrupted machining of hardened steel
	■ ■	SB500 SBS500	Good thermal stability and crater wear resistance	High speed continuous machining of hardened steel

Cutting condition of PCBN with High CBN content



Cutting condition of PCBN with Low CBN content

