HNT Carbide High Performance Material

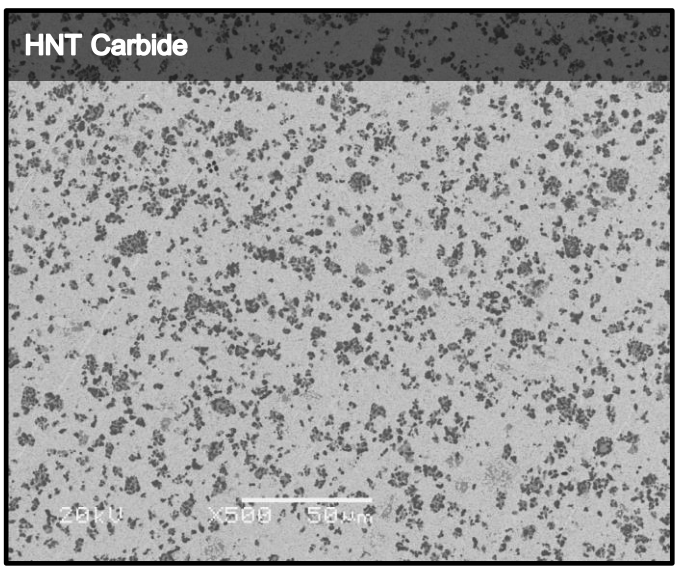
(For Consolidation via Press and SinterHip)

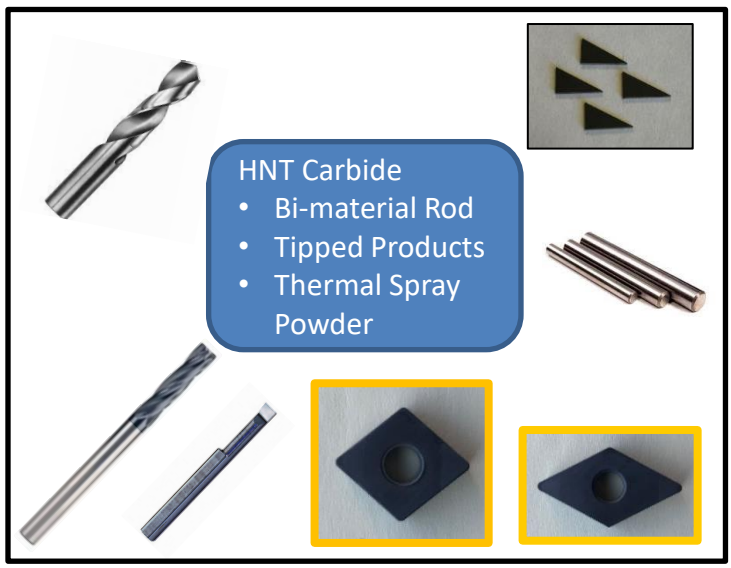
		HNT Carbide	
Composition	Ti(C,N)	7.3 wt.%	wt.%
	WC	82.8 wt.%	wt.%
	Co	9.9 wt.%	wt.%
Sintered Properties	Hardness (ASTM B294)	92.0 – 92.3	HRA
	Hardness (ASTM E384)	1650 - 1700	HV_{30}
	Density (ASTM B311)	12.70 - 12.80	g/cm^3
	Palmqvist Toughness (ISO 28079)	11.0 – 11.5	MPavm

Grade Attributes: The uniformly distributed Ti(C,N) particles provide increased thermal conductivity when compared to conventional WC-Co grades while maintaining TCHP's unmatched hardness and toughness at elevated operating temperatures. The patented TCHP coating process eliminates the standard core-rim cermet structure by completely encapsulating each Ti(C,N) particle in order to protect them during consolidation.

Performance Characteristics

	Low	Mod	High
Wear			▮
Impact		▮	
Galling		▮	
Corrosion	▮		





EternAloy®
www.eternaloy.us

509 Hahntown Wendel Road | North Huntingdon, PA 15642
TEL: (724) 864-4787 FAX: (724) 864-4562