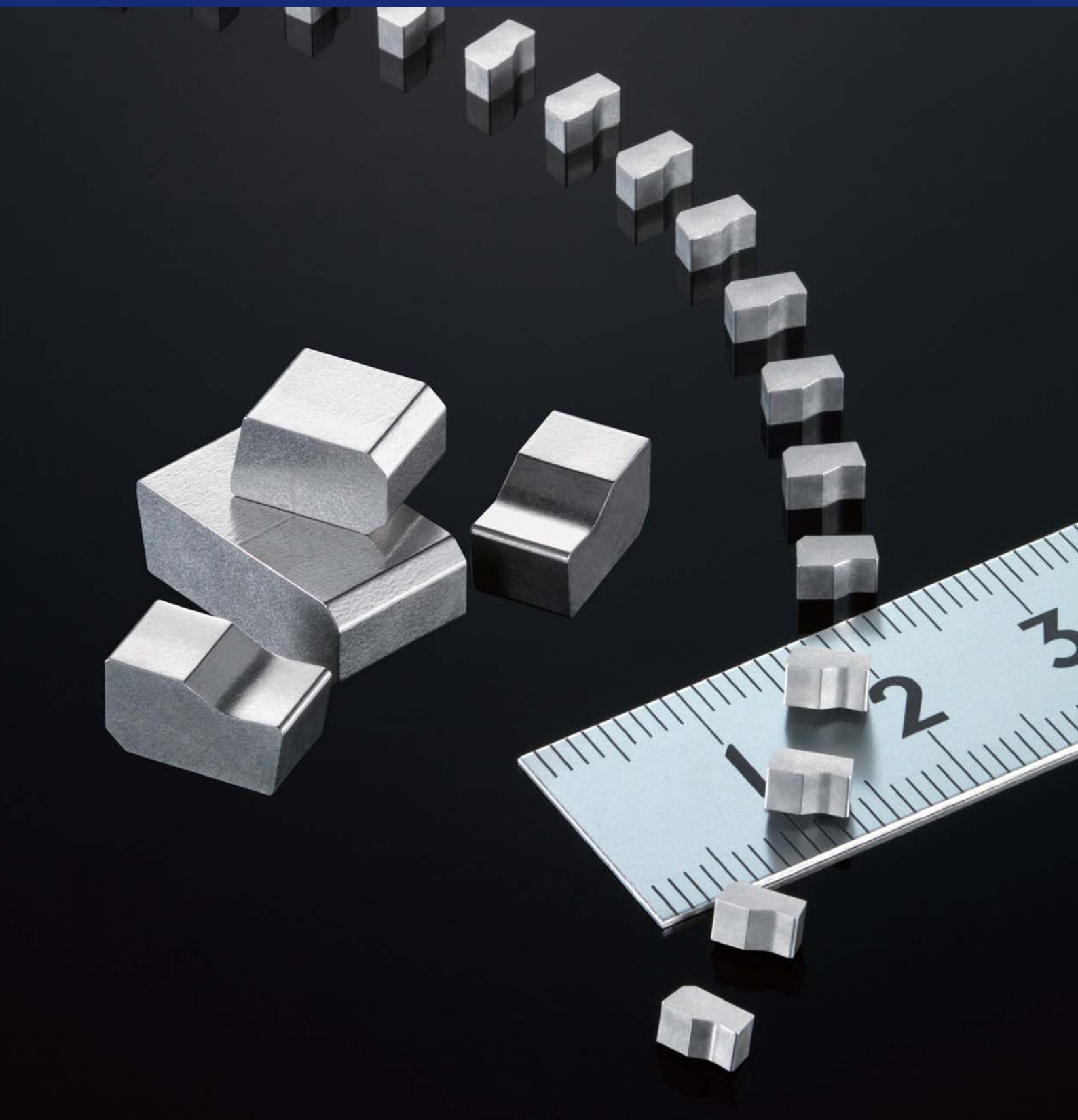
MITSUBISHI

TM02G

TIP MATERIALS for CIRCULAR SAW

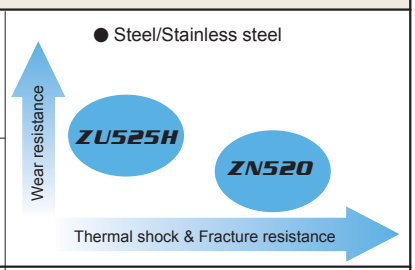


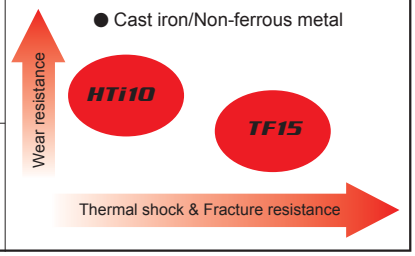
MITSUBISHI MATERIALS CORPORATION

CEMENTED CARBIDE GRADE

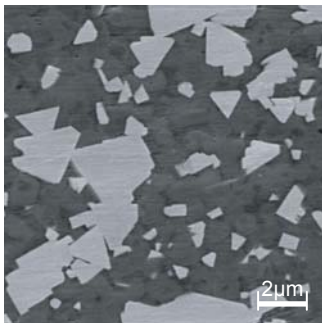
Grade Classification

ISO		Grade	Cobalt content (mass%)	Hardness (HV)	Hardness (HRA)	TRS (GPa)	Features
P	P30	ZU525H	12.5	1000	90.5	2.1	Excellent wear resistance. Suitable for steel and stainless steel continuous-interrupted machining.
P	P40	ZN520	12.0	850	89.3	2.2	Excellent fracture resistance. Suitable for steel and stainless steel heavy-interrupted machining.
K	K10	HTi10	6.0	1700	92.0	2.0	Excellent wear resistance. Suitable for cast iron and non-ferrous metal continuous machining.
K	K20	TF15	10.0	1550	91.0	2.5	Excellent fracture resistance. Suitable for cast iron and non-ferrous metal continuous-interrupted machining.

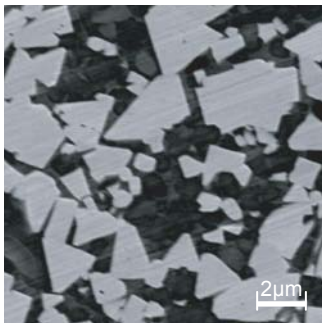




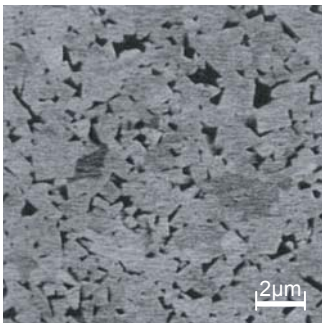
Comparison of Structure



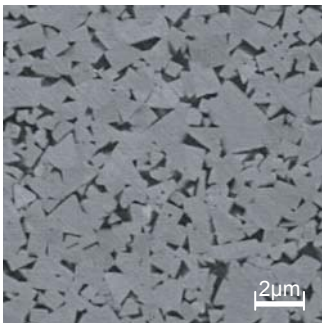
ZU525H



ZN520



HTi10

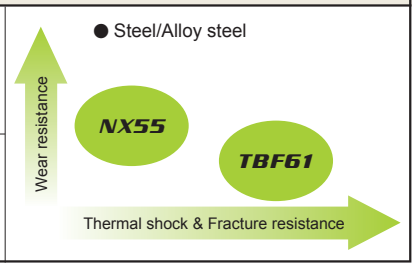


TF15

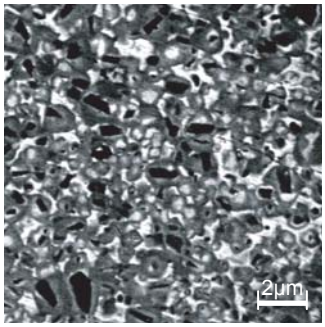
CERMET GRADE

Grade Classification

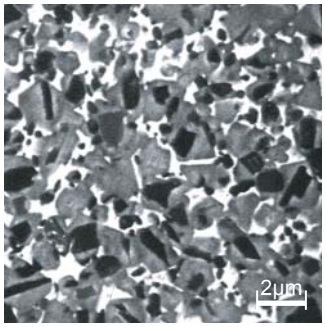
ISO		Grade	Content (%) TiCN	Content (%) Co+Ni	Content (%) Other	Hardness (HV)	Hardness (HRA)	Features
P	P20	NX55	49	18	33	1600	91.2	Excellent wear resistance. Suitable for steel continuous machining.
P	P20	TBF61	53	19	28	1000	90.5	Excellent thermal shock and fracture resistance. Suitable for steel continuous machining.



Comparison of Structure

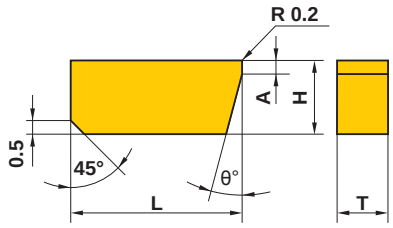
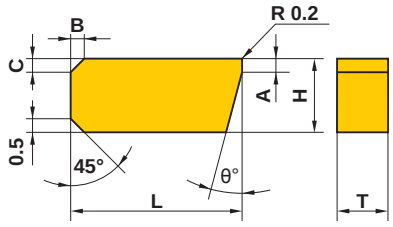
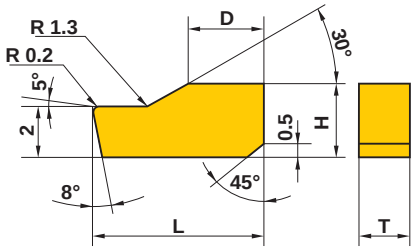


NX55



TBF61

Standard Tips

Geometry	Order number	Dimensions									
		L		H		T	θ°	A	B	C	D
SBA type	**SBA–4x1.5xTx10%**	4	±0.2	1.5	±0.2	2–5	10	0.5	–	–	–
	**–4x2xTx15%**	4	±0.2	2	±0.2	2–5	15	0.5	–	–	–
	–5x1.5xTx20%	5	±0.2	1.5	±0.2	2–5	20	0.5	–	–	–
	–5x2xTx15%	5	±0.2	2	±0.2	2–5	15	0.5	–	–	–
	–5x2.5xT	5	±0.2	2.5	±0.2	2–5	0	–	–	–	–
	–5x2.5xTx8%	5	±0.2	2.5	±0.2	2–5	8	0.5	–	–	–
	–5x3xTx8%	5	±0.2	3	±0.2	2–5	8	0.5	–	–	–
	–6x2xTx8%	6	±0.2	2	±0.2	2–5	8	0.5	–	–	–
	–6x2xTx45%	6	±0.2	2	±0.2	2–5	45	1.5	–	–	–
	–7x2.2xTx8%	7	±0.2	2.2	±0.2	2–5	8	0.5	–	–	–
	–7x2.5xT	7	±0.2	2.5	±0.2	2–5	0	–	–	–	–
	–7x2.5xTx8%	7	±0.2	2.5	±0.2	2–5	8	0.5	–	–	–
	–7x2.5xTx20%	7	±0.2	2.5	±0.2	2–5	20	0.5	–	–	–
	–7x3xT	7	±0.2	3	±0.2	2–5	0	–	–	–	–
	–9x3xTx20%	9	±0.2	3	±0.2	2–5	20	0.5	–	–	–
SBB type	**SBB–4x1.8xTx15%**	4	±0.2	1.8	±0.2	2–5	15	0.5	1	0.5	–
	**–4x2xTx15%**	4	±0.2	2	±0.2	2–5	15	0.5	1	0.5	–
	–4x2.3xTx10%	4	±0.2	2.3	±0.2	2–5	10	0.5	0.5	0.5	–
	–5x1.8xTx15%	5	±0.2	1.8	±0.2	2–5	15	0.5	1	0.5	–
	–5x2.3xTx10%	5	±0.2	2.3	±0.2	2–5	10	0.5	0.5	0.5	–
	–6x2xTx15%	6	±0.2	2	±0.2	2–5	15	0.5	1	0.5	–
	–6x2.3xTx10%	6	±0.2	2.3	±0.2	2–5	10	0.5	0.5	0.5	–
	–7x2.3xTx10%	7	±0.2	2.3	±0.2	2–5	10	0.5	0.5	0.5	–
	–7x2.5xTx10%	7	±0.2	2.5	±0.2	2–5	10	0.5	0.5	0.5	–
SFA type	**SFA–4x2.5xT**	4	±0.2	2.5	±0.2	2–5	–	–	–	–	1.8
	**–4.5x2.5xT**	4.5	±0.2	2.5	±0.2	2–5	–	–	–	–	2
	–5x2.5xT	5	±0.2	2.5	±0.2	2–5	–	–	–	–	2.2

Note1) ◌◌% shows θ°.
Note2) Please contact us for any geometry.

MITSUBISHI MATERIALS
CARBIDE BLANK

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