








INCH










INCH CARBIDE MICRO END MILLS

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Material	Property	Vc : SFM Uncoated	Vc : SFM AITIN	Feed : (ipt)							
				Ø0.0079"	Ø0.0197"	Ø0.0315"	Ø0.0394"	Ø0.0591"	Ø0.0787"	Ø0.1181"	
	<70 ksi	195	260	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	<115 ksi	195	260	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	<145 ksi	195	260	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	<190 ksi	130	195	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	-	80	150	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	-	-	80	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	-	-	80	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	-	195	260	Slotting ap = 0.0394" ae = 0.0394"	0.00004	0.00004	0.00008	0.00008	0.00012	0.00016	0.00024
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00001	0.00002	0.00002	0.00003	0.00004	0.00004
	-	490	-	Slotting ap = 0.0394" ae = 0.0394"	0.00008	0.00020	0.00035	0.00047	0.00071	0.00094	0.00142
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00004	0.00004	0.00004	0.00008	0.00008	0.00016
	-	260	-	Slotting ap = 0.0394" ae = 0.0394"	0.00008	0.00024	0.00031	0.00047	0.00071	0.00094	0.00142
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00004	0.00004	0.00004	0.00008	0.00008	0.00016
	-	260	-	Slotting ap = 0.0394" ae = 0.0394"	0.00008	0.00020	0.00031	0.00039	0.00059	0.00079	0.00118
				Finishing ap = 0.0394" ae = 0.0118"	0.00001	0.00004	0.00004	0.00004	0.00008	0.00008	0.00012

METRIC

METRIC CARBIDE MICRO END MILLS

Material	Property	Vc : m/min Uncoated	Vc : m/min AlTiN	Feed : (mm/t)							
				Ø0.2	Ø0.5	Ø0.8	Ø1.0	Ø1.5	Ø2.0	Ø3.0	
	<500 MPa	60	80	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	<800 MPa	60	80	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	<1,000 MPa	60	80	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	<1,300 MPa	40	60	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	-	25	45	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	-	-	25	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	-	-	25	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	-	60	80	Slotting ap = 1.0 ae = 1.0	0.001	0.001	0.002	0.002	0.003	0.004	0.006
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	-	150	-	Slotting ap = 1.0 ae = 1.0	0.002	0.005	0.009	0.012	0.018	0.024	0.036
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.002	0.002	0.004
	-	80	-	Slotting ap = 1.0 ae = 1.0	0.002	0.006	0.008	0.012	0.018	0.024	0.036
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.002	0.002	0.004
	-	80	-	Slotting ap = 1.0 ae = 1.0	0.002	0.005	0.008	0.010	0.015	0.020	0.030
				Finishing ap = 1.0 ae = 0.3	0.001	0.001	0.001	0.001	0.002	0.002	0.003

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