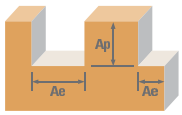
S-Carb APF®



	Series 43APF Fractional	Hardness		Ae x D_1	Ap x D_1	Vc (sfm)		Diameter (D_1) (inch) 1/2	3/4
N	ALUMINUM ALLOYS 2024, 5052, 5086, 6061, 6063, 7075	≤ 150 Bhn or ≤ 7 HRc	Profile	≤ 0.1	≤ 2.5	2625	RPM	20055	13370
						(2100-3150)	Fz	0.0030	0.0050
							Feed (in/min)	241	267
			Profile	≤ 0.1	≤ 4	2625	RPM	20055	13370
						(2100-3150)	Fz	0.0020	0.0040
							Feed (in/min)	160	214
	ALUMINUM ALLOYS (LITHIUM)* 2090, 2091, 2099, 2195, 2199, 2297, 8090	≤ 150 Bhn or ≤ 7 HRc	Profile	≤ 0.1	≤ 2.5	1970	RPM	15051	10034
						(1576-2364)	Fz	0.0030	0.0050
							Feed (in/min)	181	201
			Profile	≤ 0.1	≤ 4	1970	RPM	15051	10034
						(1576-2364)	Fz	0.0020	0.0040
							Feed (in/min)	120	161

Bhn (Brinell) HRc (Rockwell C)
surface speed is dependent on machine spindle and fixturing
balancing is recommended at ultra high surface speeds
tool life may be reduced when machining Lithium Alloys
rpm = Vc x 3.82 / D_1
ipm = Fz x 4 x rpm
maximum recommended depths shown
reduce speed and feed for materials harder than listed
finish cuts typically require reduced feed and cutting depths of 0.02 X D_1 maximum
ramp angle = 6° (feed rate = 50%)
plunging not recommended
refer to the KYOCERA SGS Tool Wizard® for complete technical information (www.kyocera-sgstool.com)