



Series 43APF Fractional	Hardness	Profile	Ae x DC	Ap x DC	Vc (sfm)	DC • in		
						1/2	3/4	
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
	≤ 150 Bhn or ≤ 7 HRc	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
	≤ 150 Bhn or ≤ 7 HRc	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
 $rpm = Vc \times 3.82 / DC$
 $ipm = Fz \times 4 \times rpm$
 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 DC maximum
 ramp angle = 6° (feed rate = 50%)
 plunging not recommended
 refer to the SGS Tool Wizard® for complete technical information (www.kyocera-sgstool.com)