



Abrasive Cutter Consumables



Abrasive Blades

Buehler's Abrasive Blades are designed to provide high quality sectioning results with no burning and minimal surface deformation. This can reduce the amount of grinding & polishing required later in the preparation process.

Efficient Cutting with Extended Life

An abrasive blade wears down during cutting to expose new abrasive particles and maintain efficient cutting. However, too fast of a wear rate leads to shortened blade life. Buehler's blades have been designed to balance this wear rate to maintain efficient cutting while extending blade life.

Resin Bond vs Rubber Bond

Buehler's line of abrasive blades includes both rubber bonded and resin bonded blades. While both provide high quality cutting, there are some differences between them. Rubber bonded blades may be thinner for some applications, but emit a burnt rubber odor while cutting. Resin bonded blades offer similar performance with a reduced odor.

Abrasive Blades Selection, 1.25in [32mm] Arbor (Qty 10)

[Blade Thickness is listed under Part Number] *Rubber Bond* = • *Resin Bond* = *

Recommended Use	9in [230mm] Chop/Linear	10in [254mm] Chop/Linear	12in [305mm] Chop/Linear	12in [305mm] Orbital
Superalloys, General Steel, Non-Ferrous	95B2112* 0.067in [1.7mm]	12-4205-010• 0.055in [1.4mm]	12-4405-010• 0.055in [1.4mm]	12-4405-010• 0.055in [1.4mm]
		95B2212* 0.08in [2mm]	95B2312* 0.08in [2mm]	
Ferrous materials >HRC60	10-4110-010• 0.07in [1.8mm]	10-4210-010• 0.07in [1.8mm]	12-4110-010• 0.105in [2.7mm]	12-4410-010• 0.105in [2.7mm]
	102309P* 0.06in [1.5mm]	102509P* 0.06in [1.5mm]	103009P* 0.079in [2mm]	
Ferrous materials HRC50-60	10-4112-010• 0.07in [1.8mm]	10-4210-010• 0.07in [1.8mm]	10-4412-010• 0.105in [2.7mm]	12-4410-010• 0.105in [2.7mm]
	102310P* 0.06in [1.5mm]	95B2202* 0.08in [2mm]	95B2302* 0.08in [2mm]	
Ferrous materials HRC35-50	10-4116-010• 0.07in [1.8mm]	10-4216-010• 0.07in [1.8mm]	12-4116-010• 0.105in [2.7mm]	12-4416-010• 0.105in [2.7mm]
	95B2103* 0.067in [1.7mm]	102510P* 0.06in [1.5mm]	103010P* 0.079in [2mm]	
Ferrous materials HRC15-35	10-4120-010• 0.07in [1.8mm]	10-4220-010• 0.063in [1.6mm]	12-4120-010• 0.105in [2.7mm]	12-4420-010• 0.105in [2.7mm]
		102511P* 0.06in [1.5mm]	103011P* 0.079in [2mm]	
High Speed Steel, Stainless Steel, Carburized Steel	102308P* 0.06in [1.5mm]	102508P* 0.06in [1.5mm]	103008P* 0.079in [2mm]	
Delicate Cutting	10-4127-010• 0.032in [0.8mm]	10-4227-010• 0.032in [0.8mm]		
Titanium Alloys, Zirconium Alloys, Ductile Materials	10-4145-010• 0.063in [1.6mm]	10-4245-010• 0.063in [1.6mm]	12-4145-010• 0.055in [1.4mm]	
	102307P* 0.06in [1.5mm]	102507P* 0.06in [1.5mm]	103007P* 0.079in [2mm]	
Non-Ferrous Materials (Aluminum, Copper, Brass), Very Soft Ferrous Materials	10-4150-010• 0.063in [1.6mm]	10-4250-010• 0.043in [1.1mm]	103012P* 0.079in [2mm]	
	95B2104* 0.067in [1.7mm]	102512P* 0.06in [1.5mm]		

AcuThin™ Blades



For certain applications, it is important to minimize the amount of damage done to the sample during sectioning. The AcuThin series offers thin blades that have been developed to minimize the area of cutting thus reducing the amount of damage to the sample. These blades utilize a rubber bond and allow for precise, delicate abrasive sectioning with minimal surface damage. [Blade Thickness is listed under Part Number]

Recommended Use	9in [230mm]	10in [254mm]	12in [305mm] Chop	14in [356mm] Chop
General Use <HRC45	102301 0.032in [0.8mm]	102501 0.04in [1mm]	10-4360-010 0.032in [0.8mm]	10-3501 0.063in [1.6mm]
Ferrous Materials >HRC45	10-4161-010 0.025in [0.635mm]	10-4261-010 0.025in [0.635mm]	10-4361-010 0.025in [0.635mm]	103502 0.105in [2.7mm]

Abrasive Blades Selection, 1.25in [32mm] Arbor (Qty 10)

[Blade Thickness is listed under Part Number] **Rubber Bond = • Resin Bond = ***

Recommended Use	14in [356mm] Chop/Linear	14in [356mm] Orbital	16in [406mm] Orbital	18in [455mm] Orbital
Superalloys, General Steel, Non-Ferrous	12-4305-010• 0.063in [1.6mm] 95B2412* 0.09in [2.3mm]	12-4305-010• 0.063in [1.6mm]	12-5605-010• 0.075in [1.9mm]	12-5805-010• 0.1in [2.5mm]
Ferrous materials >HRC60	10-4310-010• 0.075in [1.9mm] 103509P* 0.098in [2.5mm]	12-4310-010• 0.105in [2.7mm]	12-5610-010• 0.125in [3mm]	12-5810-010• 0.153in [3.8mm]
Ferrous materials HRC50-60	10-4312-010• 0.115in [2.9mm] 95B2402* 0.09in [2.3mm]	12-4310-010• 0.105in [2.7mm]	12-5612-010• 0.125in [3mm]	12-5816-010• 0.153in [3.8mm]
Ferrous materials HRC35-50	12-4305-010• 0.063in [1.6mm] 103510P* 0.098in [2.5mm]	12-4316-010• 0.105in [2.7mm]	12-5616-010• 0.125in [3mm]	12-5816-010• 0.153in [3.8mm]
Ferrous materials HRC15-35	12-4305-010• 0.063in [1.6mm] 103511P* 0.098in [2.5mm]	12-4320-010• 0.105in [2.7mm]	12-5616-010• 0.125in [3mm]	12-5816-010• 0.153in [3.8mm]
High Speed Steel, Stainless Steel, Carburized Steel	103508P* 0.098in [2.5mm]			
Delicate Cutting				
Titanium Alloys, Zirconium Alloys, Ductile Materials	10-4345-010• 0.075in [1.9mm] 103507P* 0.098in [2.5mm]		12-5645-010• 0.075in [1.9mm]	12-5845-010• 0.1in [2.5mm]
Non-Ferrous Materials (Aluminum, Copper, Brass), Very Soft Ferrous Materials	10-4350-010• 0.105in [2.7mm] 103512P* 0.098in [2.5mm]			



Precision Cutter Consumables



AcuThin™ Abrasive Blades for IsoMet™ Precision Cutters, 0.5in [12.7mm] Arbor (Qty 10)

[Blade Thickness is listed under Part Number]

Recommended Use	5in [127mm]	7in [178mm]	150mm	200mm
Use with Saws	IsoMet High Speed	IsoMet High Speed	IsoMet High Speed	IsoMet High Speed Pro Only
Tool Steel, hard steel, HRC45 & Up	10-4060-010 0.019in [0.48mm]			
Medium hard, soft steel, HRC45 & Below	10-4061-010 0.019in [0.48mm]			
Steel, Stainless Steel		11-4207-010 0.030in [0.76mm]		
Hard, soft non-ferrous materials		11-4217-010 0.030in [0.76mm]		
Soft materials			101520 0.50mm	102020 0.50mm
Tough materials and general use			1015998E 1mm	1020998E 1.5mm



IsoCut™ Fluid

Oil based coolant only for use with the IsoMet Low Speed Saw or any saw with a maximum speed of 500rpm

11-1193-032 1qt [0.95L]
11-1193-128 1gal [3.8L]



Cool 3 Fluid

Water miscible fluid concentrate. Dilute coolant to 1:25 to 2:25, with water

10-6001 33.8oz [1L]
10-6004 1.05gal [4L]
10-6010 2.6gal [10L]



Glossy

Clear paste for keeping cutter windows clear

109003 2oz [60mL]



Reciclean™

Cleaner for recirculation systems

109004 1.25gal [4.75L]



AddiCool™

Additive to prevent galvanic corrosion when cutting Cu and Cu-alloys

10-9006 1qt [1L]



Dressing Wheel

For IsoMet High Speed only

11-2655 20 HC, 15HC, 20LC, 15LC, CBN HC, and CBN LC blades
11-2656 10 LC and 5LC blades



Dressing Sticks

11-1190 3 x 0.5 x 0.5in [76 x 13 x 13mm] for 20HC, 15HC, 20LC, 15LC, CBN LC and CBN HC precision blades
11-2490 3 x 1 x 1in [76 x 25 x 25mm] for 20HC, 15HC, 20LC, 15LC, CBN LC and CBN HC precision blades
11-1290 3 x 0.5 x 0.5in [76 x 13 x 13mm] for 10LC and 5LC precision blades