



# BUEHLER® ACU-THIN™ CUT-OFF BLADES

BUEHLER® ACU-THIN™ Cut-off Blades have been specially developed to improve material sectioning.

The key advantages of these blades are:

- Cooler cutting action across a wide range of materials
- Reduction of kerf loss
- Easier sectioning of small, delicate parts
- Minimal structural damage to the specimen
- Reduced cutting costs

BUEHLER's ACU-THIN Cut-off Blades have been formulated for fast sectioning of small, delicate specimens, as well as large, sturdy specimens. These blades give the user a versatile cutting option that proves effective over a variety of specimen types.

A key feature of ACU-THIN Cut-off Blades is their ability to reduce kerf loss. Due to the thin design of these blades, surface contact is minimized, resulting in less heat generation and easier cutting during the sectioning process.

An additional benefit of the ACU-THIN Cut-off Blade design is that less pressure is needed for proper sectioning. This requirement for less pressure reduces the chances of burning the specimen or altering its inherent structure. In turn, quality, cost-effective sectioning is achieved with a reduction of sub-surface damage to specimens.

ACU-THIN Cut-off Blades have been specially designed to cut a multitude of materials of varying hardness levels. There are two blades for each diameter size, one for specimens of HRC 45 and above, and another for specimens with hardness levels below HRC 45. When cutting specimens of varying hardness, the user does not have to change the blades as frequently and can conveniently cut his specimens with ease.

ACU-THIN Cut-off Blades offer a new cutting technology that can be utilized for sectioning a spectrum of specimen types. Their efficient design makes them ideal for material sectioning in production applications as well as standard laboratory use.

## ACU-THIN™ Abrasive Blades

Catalog Number	Diameter Size Inches (mm)	Arbor Size Inches (mm)	Recommended Use Material, Hardness Level	Thickness Inches (mm)	Bond*/ Abrasive
10-4060-010	5" (127mm)	.500" (12.7mm)	Tool, hard steel; Rc45 and above	0.019" (.480mm)	R/Al <sub>2</sub> O <sub>3</sub>
10-4061-010	5" (127mm)	.500" (12.7mm)	Med. hard, soft steel; Rc45 and below	0.019" (.480mm)	R/Al <sub>2</sub> O <sub>3</sub>
10-4160-010	9" (229mm)	1.25" (31.75mm)	Tool, hard steel; Rc45 and above	0.025" (.635mm)	R/Al <sub>2</sub> O <sub>3</sub>
10-4161-010	9" (229mm)	1.25" (31.75mm)	Med. hard, soft steel; Rc45 and below	0.025" (.635mm)	R/Al <sub>2</sub> O <sub>3</sub>
10-4260-010	10" (250mm)	1.25" (31.75mm)	Tool, hard steel; Rc45 and above	0.030" (.762mm)	RR/Al <sub>2</sub> O <sub>3</sub>
10-4261-010	10" (250mm)	1.25" (31.75mm)	Med. hard, soft steel; Rc45 and below	0.030" (.762mm)	RR/Al <sub>2</sub> O <sub>3</sub>
10-4360-010	12" (300mm)	1.25" (31.75mm)	Tool, hard steel; Rc45 and above	0.032" (.813mm)	R/Al <sub>2</sub> O <sub>3</sub>
10-4361-010	12" (300mm)	1.25" (31.75mm)	Med. hard, soft steel; Rc45 and below	0.032" (.813mm)	R/Al <sub>2</sub> O <sub>3</sub>

\* R = Rubber  
RR = Resin Rubber

ISOCUT® Fluid and ISOCUT® PLUS Fluid are the two recommended cutting solutions for all precision sectioning saws. ISOCUT Fluid is an oil-based coolant which can reduce cutting times significantly on many types of materials.

ISOCUT PLUS Fluid was developed for use on high speed, higher load saws like the ISOMET™ 2000. This fluid is water-based and should be used on any saw sectioning samples which partly consist of a water soluble phase.

## Cutting Fluids

Fluid	Application	Quantity	Number
ISOCUT® Fluid	ISOMET™ Saws	1 qt. (0.95l)	11-1193-032
ISOCUT® Fluid	ISOMET™ Saws	1 gal. (3.8l)	11-1193-128
ISOCUT® Plus Fluid	ISOMET™ 2000	1 pt. (0.476l)	11-2293-016
Soluble Oil	Abrasive Cutters	1 qt. (0.95l)	10-3330-032
Soluble Oil	Abrasive Cutters	1 gal. (3.8l)	10-3330-128
Soluble Oil	Abrasive Cutters	5 pt. (19l)	10-3330-640

