



SUPERABRASIVE



STONE FABRICATION PRODUCTS CATALOG

GlossFire®, RAZOR Pads, ZT Cutters, Sink Wheels, and more...

www.superabrasive.com

Superabrasive at a glance...

Superabrasive has been manufacturing high quality diamond tooling and equipment since 1987. We proudly produce machines and tooling for the concrete, stone, and optical industries.

Our expertise in the production of diamond powder allows us to customize abrasive tooling for cutting, grinding, or polishing a variety of materials including concrete, natural stone, engineered stone, terrazzo, glass, polycarbonate, and a variety of resin materials.

We are the proud manufacturer of these quality name brands:

Calibra®

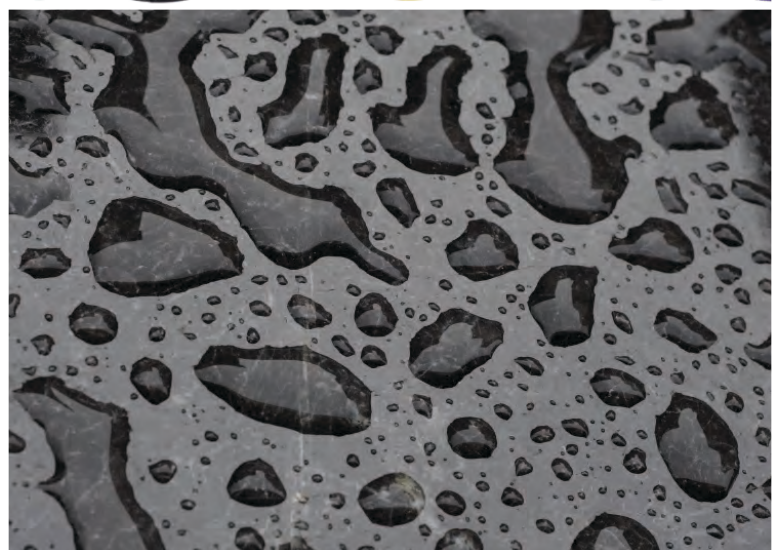
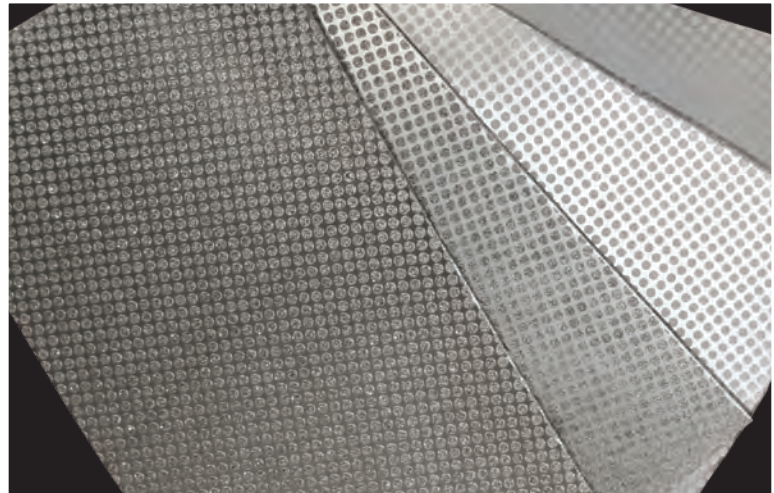
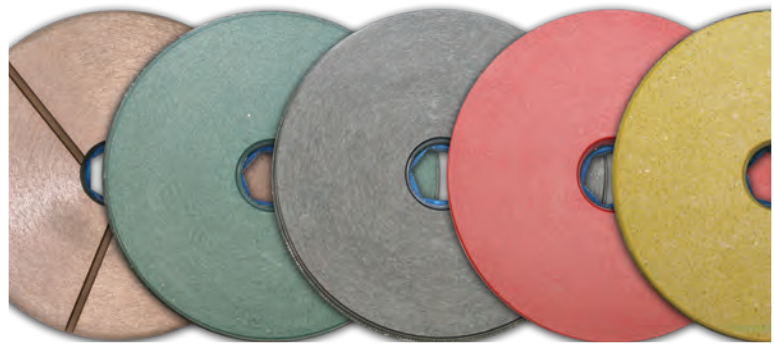
GlossFire®

LAVINA®

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GlossFire® ProEdge Polishing System

GlossFire ProEdge Multi Edge Polishing System (previously marketed and known as TORO ProEdge) is the ideal solution for any single head, multi-edge automated polishing machine, such as Park PRO-EDGE®. GlossFire ProEdge features 2 metal bond shaping wheels in coarse and fine grits, as well as three resin polishing pads. This system is designed to fabricate and polish various types of profiles including Flat, Bevel, Half and Full Bullnose, Pencil Round, and others, and achieves excellent results on both natural and engineered stones.

Why is GlossFire ProEdge Different?

- This system is like 2 in 1! Unlike competitor's 5 Step Systems, GlossFire ProEdge is able to achieve a superior polish on the flat portion of the edge by using only 5 steps, when other systems require an additional three polishing steps to achieve the same results. GlossFire ProEdge polishes round and flat edges effortlessly, when others can't.
- A unique design allows for water to flow between the edge of the stone and the tool, which prevents burning and smearing on engineered materials.

Suggested GlossFire ProEdge Application Data

Step	PSI	RPM	Travel Speed (ft/min)	Depth of Cut (in)*	Miter Start Location (angle°)	Miter Stop Location (angle°)
1	100	3600	50 + Amp Control	0.125	7.0**	180
2	100	3600	80	0.032	6.5	180
3	35	3600	100	0.000	6.0	176
4	35	3600	100	0.000	5.5	176
5	35	3600	100	0.000	5.0	176

* Amount of material to be removed

** We recommend taking three start passes at a 7 degree angle

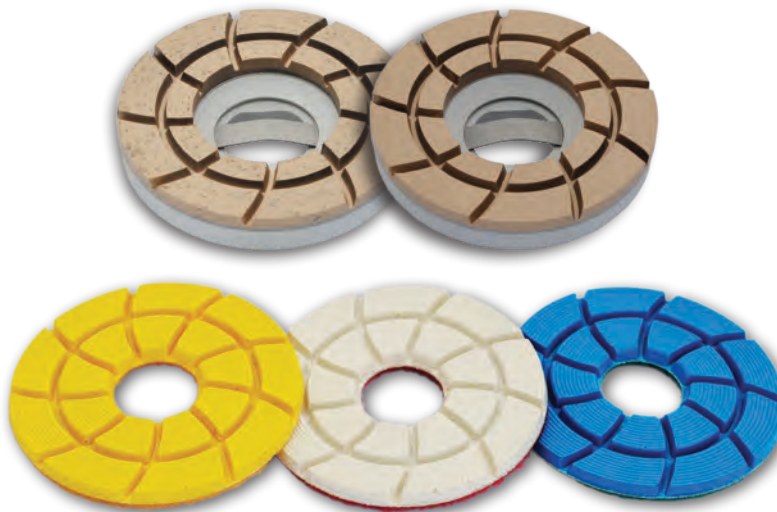
Additional settings are available for other machine models. Contact Superabrasive for details.

GlossFire ProEdge Multi-Edge Polishing System, 4 Inch

Item Number	Description	Size	Bond	Attachment	Thickness
GF-STEP1-MB	GlossFire ProEdge System, Step 1, Metal Bond	4in / 100mm	metal	snaillock	4 mm
GF-STEP2-MB	GlossFire ProEdge System, Step 2, Metal Bond	4in / 100mm	metal	snaillock	4 mm
GF-STEP3	GlossFire ProEdge System, Step 3, Resin Bond	4in / 100mm	resin	Velcro	5 mm
GF-STEP4	GlossFire ProEdge System, Step 4, Resin Bond	4in / 100mm	resin	Velcro	5 mm
GF-STEP5	GlossFire ProEdge System, Step 5, Resin Bond	4in / 100mm	resin	Velcro	5 mm

Recommended Backer for Steps 3-5

Item Number	Description	Size	Attachment
GF-SNAILLOCK4	Hard Plastic Backer for GlossFire ProEdge Steps 3-5	4 in / 100mm	snaillock





GlossFire® Multi-Edge Polishing System

GlossFire Multi-Edge Polishing System (previously marketed and known as TORO-B) is designed to polish flat as well as most rounded edges. All GlossFire discs fit on automated wet-polishing multi-head machines using the snail lock adaptor, such as Marmo Meccanica (LTH & LTT), Sasso Meccanica (TE Experience & RCM Multi-head), Park Industries (Velocity), Montresor (Lara & Luna) and others.

The multi-edge polishing discs are available in 5 and 6 inches in resin and copper bond.

Suggested GlossFire Multi-Edge Application Data

- 5 head machines: Start with Grit 100 resin and follow with Grits 200, 500, 1000 and 2000.
- 6 head machines: Start with Grit 100 resin and follow with Grits 200, 500, 1000, 2000 and Buff.
- 8 head machines: Start with Grit 100 copper and follow with Grit 100 resin. After that continue with Grits 200 copper, 200 resin, 500, 1000, 2000 and Buff.
- 9 head machines: Start with Grit 100 copper and follow with Grit 50 resin. After that continue with Grits 100 resin, 200 copper, 200 resin, 500, 1000, 2000 and Buff.

NOTE: Start at 30psi (2 bars) and increase the pressure by 3psi (0.2 bars) at each consequent step. For example if you start with Grit 100, you have to set the machine at 30psi (2 bars). For Grit 200 – 33psi (2.3 bars), Grit 500 – 36psi (2.5 bars), Grits 1000 – 39psi (2.7 bars), 2000 – 42psi (2.9 bars) and BUFF – 45psi (3.1 bars).



GlossFire 5 Inch/125mm Polishing Discs, Resin and Copper

Item Number	Description	Grit	Bond	Attachment	Thickness
GF-B-5-0050	GlossFire 5 inch disc, resin bond, 50 grit	50	resin	snaillock	8 mm
GF-B-5-0100	GlossFire 5 inch disc, resin bond, 100 grit	100	resin	snaillock	8 mm
GF-B-5-0100-CO	GlossFire 5 inch disc, copper bond, 100 grit	100	copper	snaillock	6 mm
GF-B-5-0200	GlossFire 5 inch disc, resin bond, 200 grit	200	resin	snaillock	8 mm
GF-B-5-0200-CO	GlossFire 5 inch disc, copper bond, 200 grit	200	copper	snaillock	6 mm
GF-B-5-0500	GlossFire 5 inch disc, resin bond, 500 grit	500	resin	snaillock	8 mm
GF-B-5-1000	GlossFire 5 inch disc, resin bond, 1000 grit	1000	resin	snaillock	8 mm
GF-B-5-2000	GlossFire 5 inch disc, resin bond, 2000 grit	2000	resin	snaillock	8 mm
GF-B-5-BUFF	GlossFire 5 inch disc, resin bond, BUFF grit	BUFF	resin	snaillock	8 mm
GF-B-5-CHAMFER	GlossFire 5 inch disc, resin bond, CHAMFER	CHMF	resin	snaillock	6 mm

GlossFire 6 Inch/150mm Polishing Discs, Resin and Copper

Item Number	Description	Grit	Bond	Attachment	Thickness
GF-B-6-0050	GlossFire 6 inch disc, resin bond, 50 grit	50	resin	snaillock	8 mm
GF-B-6-0100	GlossFire 6 inch disc, resin bond, 100 grit	100	resin	snaillock	8 mm
GF-B-6-0100-CO	GlossFire 6 inch disc, copper bond, 100 grit	100	copper	snaillock	6 mm
GF-B-6-0200	GlossFire 6 inch disc, resin bond, 200 grit	200	resin	snaillock	8 mm
GF-B-6-0200-CO	GlossFire 6 inch disc, copper bond, 200 grit	200	copper	snaillock	6 mm
GF-B-6-0500	GlossFire 6 inch disc, resin bond, 500 grit	500	resin	snaillock	8 mm
GF-B-6-1000	GlossFire 6 inch disc, resin bond, 1000 grit	1000	resin	snaillock	8 mm
GF-B-6-2000	GlossFire 6 inch disc, resin bond, 2000 grit	2000	resin	snaillock	8 mm
GF-B-6-BUFF	GlossFire 6 inch disc, resin bond, BUFF grit	BUFF	resin	snaillock	8 mm



GlossFire® Flat Edge Polishing System

GlossFire Flat Edge Polishing System (previously marketed and known as TORO-F) is developed exclusively for automated wet-polishing multi-head machines using the snail lock adaptor. It is perfect for machines manufactured by Marmo Meccanica, USG Machinery, Park Industries, Comandulli, Sasso Meccanica, Breton, CMPI and Montresor.

Suggested GlossFire Flat Edge Application Data

Recommended feed speed for our GlossFire discs is 25in/65cm/minute with a pressure of 2 bars (30 psi) and an increase of 0.2 (3 psi) at each step. Start with grit 200 if you have a good cut-off and a five step machine.



GlossFire 5 Inch/125mm Pre-Polishing Discs, Copper, Snaillock Attachment

Item Number	Description	Grit	Size	Bond	Thickness
GF-5-0030-CO	GlossFire 5 inch disc, copper bond, 30 grit	30	5 inch	copper	5 mm
GF-5-0050-CO	GlossFire 5 inch disc, copper bond, 50 grit	50	5 inch	copper	5 mm
GF-5-0070-CO	GlossFire 5 inch disc, copper bond, 70 grit	70	5 inch	copper	5 mm
GF-5-0100-CO	GlossFire 5 inch disc, copper bond, 100 grit	100	5 inch	copper	5 mm
GF-5-0200-CO	GlossFire 5 inch disc, copper bond, 200 grit	200	5 inch	copper	5 mm
GF-5-0400-CO	GlossFire 5 inch disc, copper bond, 400 grit	400	5 inch	copper	5 mm
GF-5-0600-CO	GlossFire 5 inch disc, copper bond, 600 grit	600	5 inch	copper	5 mm

GlossFire 6 Inch/150mm Pre-Polishing Discs, Copper, Snaillock Attachment

Item Number	Description	Grit	Size	Bond	Thickness
GF-6-0030-CO	GlossFire 6 inch disc, copper bond, 30 grit	30	6 inch	copper	5 mm
GF-6-0050-CO	GlossFire 6 inch disc, copper bond, 50 grit	50	6 inch	copper	5 mm
GF-6-0070-CO	GlossFire 6 inch disc, copper bond, 70 grit	70	6 inch	copper	5 mm
GF-6-0100-CO	GlossFire 6 inch disc, copper bond, 100 grit	100	6 inch	copper	5 mm
GF-6-0200-CO	GlossFire 6 inch disc, copper bond, 200 grit	200	6 inch	copper	5 mm

GlossFire 4 Inch/100mm Polishing Discs, Resin, Snaillock Attachment

Item Number	Description	Grit	Size	Bond	Thickness
GF-4-0050	GlossFire 4 inch disc, resin bond, 50 grit	50	4 inch	resin	8 mm
GF-4-0100	GlossFire 4 inch disc, resin bond, 100 grit	100	4 inch	resin	8 mm
GF-4-0200	GlossFire 4 inch disc, resin bond, 200 grit	200	4 inch	resin	8 mm
GF-4-0500	GlossFire 4 inch disc, resin bond, 500 grit	500	4 inch	resin	8 mm
GF-4-1000	GlossFire 4 inch disc, resin bond, 1000 grit	1000	4 inch	resin	8 mm
GF-4-2000	GlossFire 4 inch disc, resin bond, 2000 grit	2000	4 inch	resin	8 mm
GF-4-BUFF	GlossFire 4 inch disc, resin bond, BUFF grit	BUFF	4 inch	resin	8 mm

GlossFire 5 Inch/125mm Polishing Discs, Resin, Snaillock Attachment

Item Number	Description	Grit	Size	Bond	Thickness
GF-5-0050	GlossFire 5 inch disc, resin bond, 50 grit	50	5 inch	resin	8 mm
GF-5-0100	GlossFire 5 inch disc, resin bond, 100 grit	100	5 inch	resin	8 mm
GF-5-0200	GlossFire 5 inch disc, resin bond, 200 grit	200	5 inch	resin	8 mm
GF-5-0500	GlossFire 5 inch disc, resin bond, 500 grit	500	5 inch	resin	8 mm
GF-5-1000	GlossFire 5 inch disc, resin bond, 1000 grit	1000	5 inch	resin	8 mm
GF-5-2000	GlossFire 5 inch disc, resin bond, 2000 grit	2000	5 inch	resin	8 mm
GF-5-BUFF	GlossFire 5 inch disc, resin bond, BUFF grit	BUFF	5 inch	resin	8 mm

GlossFire 6 Inch/150mm Polishing Discs, Resin, Snaillock Attachment

Item Number	Description	Grit	Size	Bond	Thickness
GF-6-0050	GlossFire 6 inch disc, resin bond, 50 grit	50	6 inch	resin	8 mm
GF-6-0100	GlossFire 6 inch disc, resin bond, 100 grit	100	6 inch	resin	8 mm
GF-6-0200	GlossFire 6 inch disc, resin bond, 200 grit	200	6 inch	resin	8 mm
GF-6-0500	GlossFire 6 inch disc, resin bond, 500 grit	500	6 inch	resin	8 mm
GF-6-1000	GlossFire 6 inch disc, resin bond, 1000 grit	1000	6 inch	resin	8 mm
GF-6-2000	GlossFire 6 inch disc, resin bond, 2000 grit	2000	6 inch	resin	8 mm
GF-6-BUFF	GlossFire 6 inch disc, resin bond, BUFF grit	BUFF	6 inch	resin	8 mm

Zero Tolerance Cutters

Zero tolerance cutters are ideal for stock removal and cut-out fabrication, and work great on radial arm machines. All cutters are equipped with bearing guide which allows for a precise edging. Available in 5/8-11 or M14 thread, these tools perform excellent on engineered and natural stones and especially on granite.

Zero Tolerance Cutters, Brazed and Sintered

Item Number	EU Item Number	Grit	Size	Bond	Attachment
ZT2x2-0050-BR	ZT2x2-0050-BR-M14	50	2in x 2in / 50mm x 50mm	brazed	5/8-11 or M14
ZT2x2-0100-BR	ZT2x2-0100-BR-M14	100	2in x 2in / 50mm x 50mm	brazed	5/8-11 or M14
ZT2x2-0200-BR	ZT2x2-0200-BR-M14	200	2in x 2in / 50mm x 50mm	brazed	5/8-11 or M14
ZT2x2-0050-BR-ROUT	ZT2x2-0050-BR-ROUT	50	2in x 2in / 50mm x 50mm	brazed	Ø22.2mm
ZT2x2-0100-BR-ROUT	ZT2x2-0100-BR-ROUT	100	2in x 2in / 50mm x 50mm	brazed	Ø22.2mm
ZT3x1.25-0050-BR	ZT3x1.25-0050-BR-M14	50	3in x 1.25in / 75mm x 32mm	brazed	5/8-11 or M14
ZT3x1.25-0100-BR	ZT3x1.25-0100-BR-M14	100	3in x 1.25in / 75mm x 32mm	brazed	5/8-11 or M14
ZT3x1.5-0050-BR	ZT3x1.5-0050-BR-M14	50	3in x 1.5in / 75mm x 38mm	brazed	5/8-11 or M14
ZT3x1.5-0100-BR	ZT3x1.5-0100-BR-M14	100	3in x 1.5in / 75mm x 38mm	brazed	5/8-11 or M14
ZT-M-2x2-036-ROUT	ZT-M-2x2-036-ROUT	36	2in x 2in / 50mm x 50mm	metal	Ø22.2mm
ZT-M-2x2-050-ROUT	ZT-M-2x2-050-ROUT	50	2in x 2in / 50mm x 50mm	metal	Ø22.2mm



Above: Metal bond sink wheels



Left: Zero Tolerance Wheels; Note: Superabrasive zero tolerance cutters are one of the most popular sellers in the SA stone line of tooling.

Sink Wheels, Metal Bond

Superabrasive's sintered (metal bond) sink wheels are the perfect tool for starting the polishing process. They are designed to run smooth and chip-free on natural and engineered stones. These 5/8-11 sintered wheels can be used wet or dry. Do not apply more than 10,000RPM. Excellent performance on radial arm machines.

Metal Bond Sink Wheels, 2in x 2in

Item Number	EU Item Number	Grit	Size	Bond	Attachment
SW2x2-036	SW2x2-036-M14	36	2in x 2in / 50mm x 50mm	metal	5/8-11 or M14
SW2x2-060	SW2x2-060-M14	60	2in x 2in / 50mm x 50mm	metal	5/8-11 or M14
SW2x2-120	SW2x2-120-M14	120	2in x 2in / 50mm x 50mm	metal	5/8-11 or M14
SW2x2-220	SW2x2-220-M14	220	2in x 2in / 50mm x 50mm	metal	5/8-11 or M14
SW2x2-320	SW2x2-320-M14	320	2in x 2in / 50mm x 50mm	metal	5/8-11 or M14

Metal Bond Sink Wheels, 3in x 1.25in

Item Number	EU Item Number	Grit	Size	Bond	Attachment
SW3x1.25-036	SW3x1.25-036-M14	36	3in x 1.25in / 75mm x 32mm	metal	5/8-11 or M14
SW3x1.25-060	SW3x1.25-060-M14	60	3in x 1.25in / 75mm x 32mm	metal	5/8-11 or M14
SW3x1.25-120	SW3x1.25-120-M14	120	3in x 1.25in / 75mm x 32mm	metal	5/8-11 or M14
SW3x1.25-220	SW3x1.25-220-M14	220	3in x 1.25in / 75mm x 32mm	metal	5/8-11 or M14
SW3x1.25-320	SW3x1.25-320-M14	320	3in x 1.25in / 75mm x 32mm	metal	5/8-11 or M14

Metal Bond Sink Wheels, 3in x 1.5in

Item Number	EU Item Number	Grit	Size	Bond	Attachment
SW3x1.5-036	SW3x1.5-036-M14	36	3in x 1.5in / 75mm x 38mm	metal	5/8-11 or M14
SW3x1.5-060	SW3x1.5-060-M14	60	3in x 1.5in / 75mm x 38mm	metal	5/8-11 or M14
SW3x1.5-120	SW3x1.5-120-M14	120	3in x 1.5in / 75mm x 38mm	metal	5/8-11 or M14
SW3x1.5-220	SW3x1.5-220-M14	220	3in x 1.5in / 75mm x 38mm	metal	5/8-11 or M14
SW3x1.5-320	SW3x1.5-320-M14	320	3in x 1.5in / 75mm x 38mm	metal	5/8-11 or M14

Metal Bond Sink Wheels, 4in x 1.25in

Item Number	EU Item Number	Grit	Size	Bond	Attachment
SW4x1.25-036	SW4x1.25-036-M14	36	4in x 1.25in / 100mm x 32mm	metal	5/8-11 or M14
SW4x1.25-060	SW4x1.25-036-M14	60	4in x 1.25in / 100mm x 32mm	metal	5/8-11 or M14
SW4x1.25-120	SW4x1.25-036-M14	120	4in x 1.25in / 100mm x 32mm	metal	5/8-11 or M14
SW4x1.25-220	SW4x1.25-036-M14	220	4in x 1.25in / 100mm x 32mm	metal	5/8-11 or M14
SW4x1.25-320	SW4x1.25-036-M14	320	4in x 1.25in / 100mm x 32mm	metal	5/8-11 or M14

Sink Wheels, Vacuum Brazed

Vacuum Brazed Sink Wheels are recommended for stock removal and honing scratches on internal radiuses. They can be used on any type of stone. All brazed sink wheels feature center water feed and are available in 5/8-11, 1/2 Gas or M14 thread. Vacuum-brazed sink wheels with 1/2 Gas attachments are ideal for CNC applications. They have only one diamond layer and do not change their shape. Consequently, the shape of the internal radius is the same all around. These 1/2 Gas sink wheels are also a great solution for finishing up the stone edge at the joints.

Vacuum Brazed Sink Wheels, 1in x 2in

Item Number	EU Item Number	Grit	Size	Bond	Attachment
SW1x2-050-BR	SW1x2-050-BR-M14	50	1in x 2in / 25mm x 50mm	brazed	5/8-11 or M14
SW1x2-100-BR	SW1x2-100-BR-M14	100	1in x 2in / 25mm x 50mm	brazed	5/8-11 or M14
SW1x2-200-BR	SW1x2-200-BR-M14	200	1in x 2in / 25mm x 50mm	brazed	5/8-11 or M14

Vacuum Brazed Sink Wheels, 2in x 2in

Item Number	EU Item Number	Grit	Size	Bond	Attachment
SW2x2-050-BR	SW2x2-050-BR-M14	50	2in x 2in / 50mm x 50mm	brazed	5/8-11 or M14
SW2x2-100-BR	SW2x2-100-BR-M14	100	2in x 2in / 50mm x 50mm	brazed	5/8-11 or M14
SW2x2-200-BR	SW2x2-200-BR-M14	200	2in x 2in / 50mm x 50mm	brazed	5/8-11 or M14



Sink Wheels, Resin and Economy Bond for Polishing

Economy Polishing Sink Wheels feature a unique resin bond compound, which combined with a new unique design and a complete range of carefully selected grits guarantees a superb polish. Designed to work equally well on all types of natural and engineered stone, these wheels are a great solution to sink polishing.

Resin Bond Polishing Sink Wheels, Economy Style, 2in x 2in

Item Number	EU Item Number	Grit	Size	Bond	Attachment
SW2x2-0050-E	SW2x2-0050-E-M14	50	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14
SW2x2-0100-E	SW2x2-0100-E-M14	100	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14
SW2x2-0200-E	SW2x2-0200-E-M14	200	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14
SW2x2-0400-E	SW2x2-0400-E-M14	400	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14
SW2x2-0800-E	SW2x2-0800-E-M14	800	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14
SW2x2-1500-E	SW2x2-1500-E-M14	1500	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14
SW2x2-3000-E	SW2x2-3000-E-M14	3000	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14
SW2x2-BUFF-E	SW2x2-BUFF-E-M14	BUFF	2in x 2in / 50mm x 50mm	resin	5/8-11 or M14



Core Bits, Vacuum Brazed

Superabrasive's vacuum brazed core bits are designed for both wet and dry applications and perform excellently, especially on marble. They are very convenient for job sites where water is unavailable. All core bits have an extended diamond side for additional shaping during cutting, and are available in 3/8 inch shank, 5/8-11 or M14 thread.

Core Bits with Shank Attachment, Vacuum Brazed

<u>Item Number</u>	<u>Size</u>	<u>Bond</u>	<u>Attachment</u>
20CB	20 mm	brazed	Shank 3/8 inch or 9.5mm
25CB	25 mm	brazed	Shank 3/8 inch or 9.5mm
30CB	30 mm	brazed	Shank 3/8 inch or 9.5mm
32CB	32 mm	brazed	Shank 3/8 inch or 9.5mm
35CB	35 mm	brazed	Shank 3/8 inch or 9.5mm
38CB	38 mm	brazed	Shank 3/8 inch or 9.5mm
40CB	40 mm	brazed	Shank 3/8 inch or 9.5mm
45CB	45 mm	brazed	Shank 3/8 inch or 9.5mm
50CB	50 mm	brazed	Shank 3/8 inch or 9.5mm
55CB	55 mm	brazed	Shank 3/8 inch or 9.5mm
60CB	60 mm	brazed	Shank 3/8 inch or 9.5mm
65CB	65 mm	brazed	Shank 3/8 inch or 9.5mm
70CB	70 mm	brazed	Shank 3/8 inch or 9.5mm
80CB	80 mm	brazed	Shank 3/8 inch or 9.5mm
100CB	100 mm	brazed	Shank 3/8 inch or 9.5mm

1/2C	1/2 inch	brazed	Shank 3/8 inch or 9.5mm
1/4C	1/4 inch	brazed	Shank 3/8 inch or 9.5mm
3/4C	3/4 inch	brazed	Shank 3/8 inch or 9.5mm
1/8C	1/8 inch	brazed	Shank 3/8 inch or 9.5mm
3/8C	3/8 inch	brazed	Shank 3/8 inch or 9.5mm
1C	1 inch	brazed	Shank 3/8 inch or 9.5mm
1-1/2C	1-1/2 inch	brazed	Shank 3/8 inch or 9.5mm
1-1/4C	1-1/4 inch	brazed	Shank 3/8 inch or 9.5mm
1-3/8C	1-3/8 inch	brazed	Shank 3/8 inch or 9.5mm

Core Bits, Vacuum Brazed and Sintered

Core Bits with Thread Attachment, Vacuum Brazed

Item Number	EU Item Number	Size	Bond	Attachment
CB20-5/8-11	CB20-M14	20 mm	brazed	5/8-11 or M14
CB25-5/8-11	CB25-M14	25 mm	brazed	5/8-11 or M14
CB30-5/8-11	CB30-M14	30 mm	brazed	5/8-11 or M14
CB32-5/8-11	CB32-M14	32 mm	brazed	5/8-11 or M14
CB35-5/8-11	CB35-M14	35 mm	brazed	5/8-11 or M14
CB38-5/8-11	CB38-M14	38 mm	brazed	5/8-11 or M14
CB40-5/8-11	CB40-M14	40 mm	brazed	5/8-11 or M14
CB45-5/8-11	CB45-M14	45 mm	brazed	5/8-11 or M14
CB50-5/8-11	CB50-M14	50 mm	brazed	5/8-11 or M14
CB60-5/8-11	CB60-M14	60 mm	brazed	5/8-11 or M14
CB65-5/8-11	CB65-M14	65 mm	brazed	5/8-11 or M14

Sintered Core Bits with Thread Attachment

Item Number	EU Item Number	Size	Bond	Attachment
CB-1x5/8-11-MB	CB-1xM14-MB	25 mm	metal	5/8-11 or M14
CB-1 1.8x5.8-11-MB	CB-1 1.8xM14-MB	30 mm	metal	5/8-11 or M14
CB-1 1.4x5.8-11-MB	CB-1 1.4xM14-MB	32 mm	metal	5/8-11 or M14
CB-1 3.8x5.8-11-MB	CB-1 3.8xM14-MB	35 mm	metal	5/8-11 or M14
CB-1 1.2x5.8-11-MB	CB-1 1.2xM14-MB	38 mm	metal	5/8-11 or M14
CB-1 5.8x5.8-11-MB	CB-1 5.8xM14-MB	40 mm	metal	5/8-11 or M14
CB-1 3.4x5.8-11-MB	CB-1 3.4xM14-MB	45 mm	metal	5/8-11 or M14



Anchor Bits

Superabrasive's anchor bits are the perfect bit for securing countertops and undermount sinks. They are available in various sizes, and will drill approximately 50 holes.

Anchor Bits

Item Number	EU Item Number	Size	Bond	Attachment
ANC-BR-3/8-1/4	ANC-BR-M6 DIN7991	3/8 inch	brazed	Shank 1/4 in or 6.35 mm
ANC-BR-1/4-1/4	ANC-BR-M8 DIN7991	1/4 inch	brazed	Shank 1/4 in or 6.35 mm
ANC-BR-3/16-1/4	ANC-BR-M10 DIN7991	3/16 inch	brazed	Shank 1/4 in or 6.35 mm
ANC-BR-1/4-3/8	N/A	1/4 inch	brazed	Shank 3/8 inch or 9.53mm
ANC-BR-3/16-3/8	N/A	3/16 inch	brazed	Shank 3/8 inch or 9.53mm
ANC-BR-3/8-3/8	N/A	3/8 inch	brazed	Shank 3/8 inch or 9.53mm



Corner Wheels

Superabrasive's corner wheels are an ideal solution for grinding and polishing corners. A special bond and tapered edge allow for maneuverability in tight corner spaces, but also make them an excellent solution for polishing flat edges and bevels. Our corner wheels are also ideal for scratch removal. These tools are available in resin and copper bonds in a 3 inch size.

Corner Wheels, 3 Inch

Item Number	Grit	Size	Bond	Attachment
COR3-0050	50	3 inch / 75 mm	resin	Velcro
COR3-0070	70	3 inch / 75 mm	copper	Velcro
COR3-0100	100	3 inch / 75 mm	resin	Velcro
COR3-0200	200	3 inch / 75 mm	resin	Velcro
COR3-0400	400	3 inch / 75 mm	resin	Velcro
COR3-0800	800	3 inch / 75 mm	resin	Velcro
COR3-1500	1500	3 inch / 75 mm	resin	Velcro
COR3-3000	3000	3 inch / 75 mm	resin	Velcro
COR3-BUFF	BUFF	3 inch / 75 mm	resin	Velcro



We manufacture a special backer pad for corner wheels, with a special inner hub and tapered edge, allowing for a secure hold and accurate work in the tightest of corners. Please use the following backers for attaching the corner wheels:

3AL-COR-5/8-11 or 3AL-COR-M14
5AL-COR-5/8-11 or 5AL-COR-M14

TCBL and Turbo Cups

TCBL Cutting and Shaping Blades

These vacuum brazed blades are designed to dramatically reduce fabrication time by offering both cutting and grinding options in a single tool. TCBL are available in 4 and 5 inch sizes with either 5/8-11 or M14 threads.

Turbo Cups

Superabrasive turbo cups are designed for aggressive, high speed stock removal. Available in 4 and 5 inch sizes, they may be used to grind and shape stone and concrete surfaces. We offer turbo cups in coarse, medium, and fine grits, in either 5/8-11 or M14 threads.

TCBL Cutting and Shaping Blades

Item Number	EU Item Number	Grit	Size	Bond	Attachment
TCBL-4-30BR	TCBL-4-30BR-M14	30	4 inch / 100 mm	brazed	5/8-11 or M14
TCBL-4-50BR	TCBL-4-50BR-M14	50	4 inch / 100 mm	brazed	5/8-11 or M14
TCBL-5-30BR-BLACK	TCBL-5-30BR-M14	30	5 inch / 125 mm	brazed	5/8-11 or M14
TCBL-5-50BR-BLACK	TCBL-5-50BR-M14	50	5 inch / 125 mm	brazed	5/8-11 or M14

Turbo Cups

Item Number	EU Item Number	Grit	Size	Bond	Attachment
TC4-5/8-11-C	TC4-M14-C	coarse	4 inch / 100 mm	metal	5/8-11 or M14
TC4-5/8-11-M	TC4-M14-M	medium	4 inch / 100 mm	metal	5/8-11 or M14
TC4-5/8-11-F	TC4-M14-F	fine	4 inch / 100 mm	metal	5/8-11 or M14
TC5-5/8-11-C	TC5-M14-C	coarse	5 inch / 125 mm	metal	5/8-11 or M14
TC5-5/8-11-M	TC5-M14-M	medium	5 inch / 125 mm	metal	5/8-11 or M14
TC5-5/8-11-F	TC5-M14-F	fine	5 inch / 125 mm	metal	5/8-11 or M14
TC4/C	TC4/C	coarse	4 inch / 100 mm	metal	5/8-7/8 (22mm)
TC4/M	TC4/M	medium	4 inch / 100 mm	metal	5/8-7/8 (22mm)
TC4/F	TC4/F	fine	4 inch / 100 mm	metal	5/8-7/8 (22mm)
CW-5/8-11-C	CW-M14-C	coarse	4 inch / 100 mm	metal	5/8-11 or M14
CW-5/8-11-M	CW-M14-M	medium	4 inch / 100 mm	metal	5/8-11 or M14
CW100x15-030	CW100x15-030-M14	coarse	4 inch / 100 mm	metal	5/8-11 or M14

Below, from left to right: TCBL, Turbo Cup



RAZOR Ceramic Pads and 3N Copper Pads

RAZOR Ceramic Pads

RAZOR ceramic pads are designed to be as aggressive as a cup wheel, yet as flexible as a hand pad. A special ceramic bond makes this tool an excellent choice for shaping and smoothing hard stones as well as concrete countertops, and for preparing edges for polishing. Use RAZOR for wet applications only. Available in 3, 4, and 5 inch sizes.

3N Copper Pads

Copper Pads are ideal for grinding and shaping natural stone, especially granite and marble. Extremely flexible and durable, the 3N Copper Pads are available in 4 and 5 inch sizes.

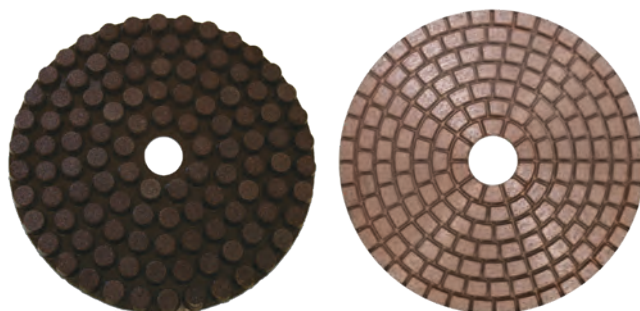
RAZOR Ceramic Pads, 3, 4 and 5 Inch, Ceramic Bond

Item Number	Grit	Size	Bond	Attachment	Thickness
RAZOR-3-50	50	3 inch / 75 mm	ceramic	Velcro	3 mm
RAZOR-3-100	100	3 inch / 75 mm	ceramic	Velcro	3 mm
RAZOR-3-200	200	3 inch / 75 mm	ceramic	Velcro	3 mm
RAZOR-4-50	50	4 inch / 100 mm	ceramic	Velcro	3 mm
RAZOR-4-100	100	4 inch / 100 mm	ceramic	Velcro	3 mm
RAZOR-4-200	200	4 inch / 100 mm	ceramic	Velcro	3 mm
RAZOR-5-50	50	5 inch / 125 mm	ceramic	Velcro	3 mm
RAZOR-5-100	100	5 inch / 125 mm	ceramic	Velcro	3 mm
RAZOR-5-200	200	5 inch / 125 mm	ceramic	Velcro	3 mm

3N Copper Pads, 4 and 5 Inch

Item Number	Grit	Size	Bond	Attachment	Thickness
3N-4-CO-030	30	4 inch / 100 mm	copper	Velcro	3 mm
3N-4-CO-050	50	4 inch / 100 mm	copper	Velcro	3 mm
3N-4-CO-070	70	4 inch / 100 mm	copper	Velcro	3 mm
3N-4-CO-120	120	4 inch / 100 mm	copper	Velcro	3 mm
3N-4-CO-220	220	4 inch / 100 mm	copper	Velcro	3 mm
3N-5-CO-030	30	5 inch / 125 mm	copper	Velcro	3 mm
3N-5-CO-050	50	5 inch / 125 mm	copper	Velcro	3 mm
3N-5-CO-070	70	5 inch / 125 mm	copper	Velcro	3 mm
3N-5-CO-120	120	5 inch / 125 mm	copper	Velcro	3 mm
3N-5-CO-220	220	5 inch / 125 mm	copper	Velcro	3 mm

From left to right: RAZOR Ceramic Pad, 3N Copper Pad



Polishing Pads for Natural Stone

3-STEP Polishing System for Granite

Superabrasive's new 3-step polishing system features a special resin bond designed to polish your stone to a high gloss in only three steps, cutting your polishing time in half.

3-STEP Polishing System, 4 Inch, Velcro Attachment

Item Number	Description	Size	Bond	Thickness
3STEP-4-P1	3-STEP Wet Polishing System, Position 1	4 inch / 99 mm	resin	2 mm
3STEP-4-P2	3-STEP Wet Polishing System, Position 2	4 inch / 99 mm	resin	2 mm
3STEP-4-P3	3-STEP Wet Polishing System, Position 3	4 inch / 99 mm	resin	2 mm

3N Resin Pads for Natural Stone

The 3N resin pads are a flexible and durable solution for polishing marble and granite. Available in a wide variety of sizes including 3, 4, 5, and 7 inches. For engineered stone, we offer the same quality product in an ES bond, in 4, 5, and 7 inches.

3N Resin Polishing Pads, 4 and 5 Inch, Velcro Attachment

Item Number	Grit	Size	Bond	Thickness
3N-4-0050	50	4 inch / 100 mm	resin	2 mm
3N-4-0120	120	4 inch / 100 mm	resin	2 mm
3N-4-0220	220	4 inch / 100 mm	resin	2 mm
3N-4-0400	400	4 inch / 100 mm	resin	2 mm
3N-4-0600	600	4 inch / 100 mm	resin	2 mm
3N-4-0800	800	4 inch / 100 mm	resin	2 mm
3N-4-1800	1800	4 inch / 100 mm	resin	2 mm
3N-4-3500	3500	4 inch / 100 mm	resin	2 mm
3N-4-8500	8500	4 inch / 100 mm	resin	2 mm
3N-5-0050	50	5 inch / 125 mm	resin	2 mm
3N-5-0120	120	5 inch / 125 mm	resin	2 mm
3N-5-0220	220	5 inch / 125 mm	resin	2 mm
3N-5-0400	400	5 inch / 125 mm	resin	2 mm
3N-5-0600	600	5 inch / 125 mm	resin	2 mm
3N-5-0800	800	5 inch / 125 mm	resin	2 mm
3N-5-1800	1800	5 inch / 125 mm	resin	2 mm
3N-5-3500	3500	5 inch / 125 mm	resin	2 mm
3N-5-8500	8500	5 inch / 125 mm	resin	2 mm

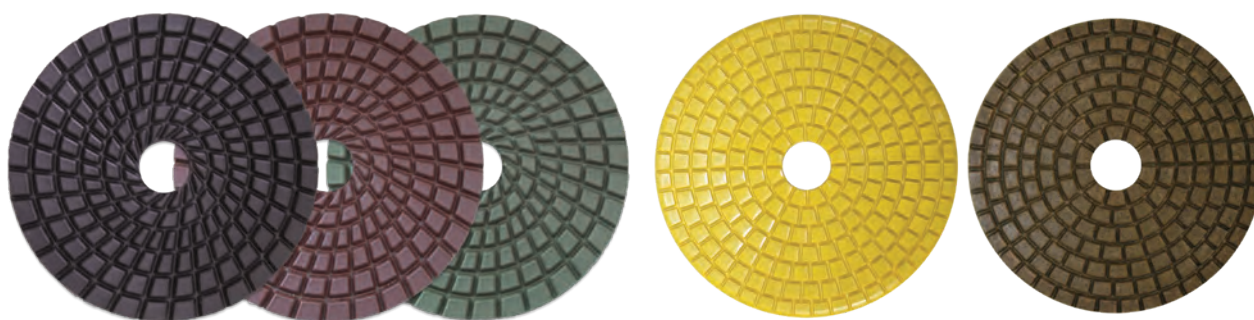
3N HP Pads for Concrete Countertops

3N High Performance Polishing Pads

The 3N HP polishing pads are designed for polishing concrete countertops. They feature a special High Performance resin for dry use only, and are extremely durable and long lasting. Available in 4 and 5 inch sizes.

3N HP Polishing Pads, Dry, 4 and 5 Inch, Velcro Attachment

Item Number	Grit	Size	Bond	Thickness
3N-HP-4-0050	50	4 inch / 100 mm	resin HP	3 mm
3N-HP-4-0100	100	4 inch / 100 mm	resin HP	3 mm
3N-HP-4-0200	200	4 inch / 100 mm	resin HP	3 mm
3N-HP-4-0400	400	4 inch / 100 mm	resin HP	3 mm
3N-HP-4-0800	800	4 inch / 100 mm	resin HP	3 mm
3N-HP-4-1500	1500	4 inch / 100 mm	resin HP	3 mm
3N-HP-4-3000	3000	4 inch / 100 mm	resin HP	3 mm
3N-HP-4-BUFF	BUFF	4 inch / 100 mm	resin HP	3 mm
3N-HP-5-0050	50	5 inch / 125 mm	resin HP	3 mm
3N-HP-5-0100	100	5 inch / 125 mm	resin HP	3 mm
3N-HP-5-0200	200	5 inch / 125 mm	resin HP	3 mm
3N-HP-5-0400	400	5 inch / 125 mm	resin HP	3 mm
3N-HP-5-0800	800	5 inch / 125 mm	resin HP	3 mm
3N-HP-5-1500	1500	5 inch / 125 mm	resin HP	3 mm
3N-HP-5-3000	3000	5 inch / 125 mm	resin HP	3 mm
3N-HP-5-BUFF	BUFF	5 inch / 125 mm	resin HP	3 mm



Pictured from left to right: 3-STEP Polishing System for Granite, 3N Polishing Pads for Stone, 3N-HP Pads for Concrete

FRANKFURT Extra Thick Bricks

FRANKFURT Extra Thick Bricks in Copper Bond are designed for stock removal at rates comparable to those of metal tools, but they leave the surface a lot smoother, and thus help achieve a better polish. The Copper Frankfurt bricks are suitable for use on both concrete and stone surfaces. Can be used on automatic multi-head machines as well as on floor machines.

The Frankfurt bricks are also offered in **Resin Bond**, in a full grit range from 50 to 8500 grit.

FRANKFURT Extra Thick Bricks, Copper Bond

Item Number	Grit	Size	Bond	Attachment	Thickness
FRT-0030-CO	30	standard	copper	frankfurt	14 mm
FRT-0050-CO	50	standard	copper	frankfurt	14 mm
FRT-0070-CO	70	standard	copper	frankfurt	14 mm
FRT-0120-CO	120	standard	copper	frankfurt	14 mm

FRANKFURT Extra Thick Bricks, Resin Bond

Item Number	Grit	Size	Bond	Attachment	Thickness
FRT-0050	50	standard	resin	frankfurt	14 mm
FRT-0120	120	standard	resin	frankfurt	14 mm
FRT-0220	220	standard	resin	frankfurt	14 mm
FRT-0400	400	standard	resin	frankfurt	14 mm
FRT-0800	800	standard	resin	frankfurt	14 mm
FRT-1800	1800	standard	resin	frankfurt	14 mm
FRT-3500	3500	standard	resin	frankfurt	14 mm
FRT-8500	8500	standard	resin	frankfurt	14 mm



Left: Frankfurt Brick, Copper Bond
Below: Frankfurt Brick, Resin Bond



Brazed Pads for Lippage

BRAZED PADS are ideal for lippage removal, an important first step in prepping the surface for grinding. Available in 3 and 4 inch sizes, these pads may also be used for floor leveling and thin coating removal. While they must be used wet, these brazed pads are appropriate for a variety of surfaces, including concrete, natural, and engineered stone.

Brazed Pads for Lippage, 3 Inch

Item Number	Grit	Size	Bond	Attachment
CEM3-030BR	30	3 inch / 75 mm	brazed	Velcro
CEM3-050BR	50	3 inch / 75 mm	brazed	Velcro
CEM3-100BR	100	3 inch / 75 mm	brazed	Velcro
CEM3-200BR	200	3 inch / 75 mm	brazed	Velcro

Brazed Pads for Lippage, 4 Inch

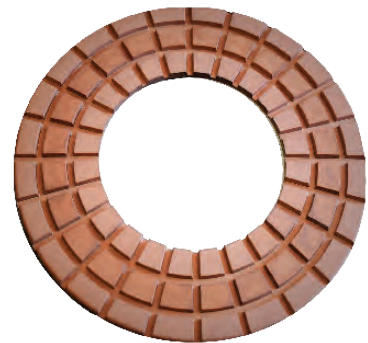
Item Number	Grit	Size	Bond	Attachment
CEM4-030BR	30	4 inch / 100 mm	brazed	Velcro
CEM4-050BR	50	4 inch / 100 mm	brazed	Velcro
CEM4-100BR	100	4 inch / 100 mm	brazed	Velcro
CEM4-200BR	200	4 inch / 100 mm	brazed	Velcro

WAFFEL COPPER DISCS

Waffel Coppers are designed to remove scratches and small lippage on new or existing natural stone and decorative concrete floors. They are ideal for use on natural stone with small, regular or large format tiles with ground lines bigger than 1/4-in, where a 3-in or 4-in tools will just chip the edges. Can be used dry and wet.

WAFFEL Copper Discs, Dry and Wet, 9 Inch

Item Number	Description	Size	Grit	Bond	Thickness
WAFF-9-CO-0030	WAFFEL Copper Disc, Velcro Attachment	9in / 228mm	30	copper	7 mm
WAFF-9-CO-0050	WAFFEL Copper Disc, Velcro Attachment	9in / 228mm	50	copper	7 mm
WAFF-9-CO-0070	WAFFEL Copper Disc, Velcro Attachment	9in / 228mm	70	copper	7 mm
WAFF-9-CO-0120	WAFFEL Copper Disc, Velcro Attachment	9in / 228mm	120	copper	7 mm
WAFF-9-CO-0220	WAFFEL Copper Disc, Velcro Attachment	9in / 228mm	220	copper	7 mm



Backer Pads

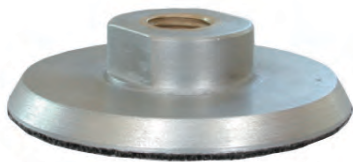
Aluminum Backer Pads

Our aluminum backers are perfect for use on flat surfaces, providing solid pad support for an even polish. They feature water dispersion, a superior Velcro attachment, and are offered in 3, 4, 5, and 7 inch sizes.

Flexible Rubber Backers, Standard and Economy

Superabrasive's rubber backers offer the right amount of flexibility needed for working in corners or other curved areas. We offer these backers in a standard version (with a brass insert) and in an economy version (with a hard plastic insert), both featuring a superior Velcro attachment.

Item Number	EU Item number	Description	Size	Attachment
3AL-5/8-11	3AL-M14	3 inch aluminum rigid backer	3in / 75mm	5/8-11 or M14
4AL-5/8-11	4AL-M14	4 inch aluminum rigid backer	4in / 100mm	5/8-11 or M14
5AL-5/8-11	5AL-M14	5 inch aluminum rigid backer	5in / 125mm	5/8-11 or M14
5AL-5/8-11-THIN	5AL-M14, THIN	5 inch aluminum rigid backer, thin	5in / 125mm	5/8-11 or M14
7AL-5/8-11	7AL-M14	7 inch aluminum rigid backer	7in / 180mm	5/8-11 or M14
RB7-5/8-11-FOAM	RB7-M14-FOAM	Flexible Foam backer	7in / 180mm	5/8-11 or M14



*Pictured from left to right:
Aluminum Backer Pad
Flexible Rubber Backer with foam*

Aluminum Backers for Corner Wheels

Similar to our standard aluminum backers, these provide rigid support for work with Superabrasive's corner wheels. A special inner hub provides additional hold, and a tapered edge allows for maneuverability in tight areas; available in 3 and 5 inch sizes. Corner backers are not available in an "economy" version, and do not offer water diversion.

Aluminum Snaillock Holder Adaptor

These holders are a convenient accessory that serves as an adaptor for tools with a snaillock attachment. These holders are available in 4 and 5 inch sizes and a variety of threads. Does not offer water dispersion.

Aluminum Backers for Corner Wheels

Item Number	EU Item number	Description	Size	Attachment
3ALCOR-5/8-11	3ALCOR-M14	3 inch aluminum corner wheel backer	3in / 75mm	5/8-11 or M14
5ALCOR-5/8-11	5ALCOR-M14	5 inch aluminum corner wheel backer	5in / 125mm	5/8-11 or M14

Aluminum Snaillock Backers

Item Number	EU Item number	Description	Size	Attachment
AD-SL4-5/8-11 FEM	AD-SL4-M14 FEM	4 inch aluminum snaillock holder	4in / 100mm	5/8-11 or M14
AD-SL4-M18 FEM	AD-SL4-M18 FEM	4 inch aluminum snaillock holder	4in / 100mm	M18
AD-SL4-M20 FEM	AD-SL4-M20 FEM	4 inch aluminum snaillock holder	4in / 100mm	M20
AD-SL4-M24 FEM	AD-SL4-M24 FEM	4 inch aluminum snaillock holder	4in / 100mm	M24
AD-SL5-5/8-11 FEM	AD-SL5-M14 FEM	5 inch aluminum snaillock holder	5in / 125mm	5/8-11 or M14
AD-SL5-M18 FEM	AD-SL5-M18 FEM	5 inch aluminum snaillock holder	5in / 125mm	M18
AD-SL5-M20 FEM	AD-SL5-M20 FEM	5 inch aluminum snaillock holder	5in / 125mm	M20
AD-SL5-M24 FEM	AD-SL5-M24 FEM	5 inch aluminum snaillock holder	5in / 125mm	M24

*Pictured from left to right:
Aluminum Backer for Corner Wheels
Aluminum Snaillock Backer*



Ogee Backer, Foam Backer and Snaillock Holders

Ogee Backer with Rubber

The Ogee backer is designed for use with flexible polishing pads, and features an ogee radius and rubber. This backer can reach inside radii on profiles such as F, FGS, FG, FV, FZ, O, O/S, and others, to allow more efficient hand polishing. The addition of rubber also provides cushion for the pad, and more comfort for the applicator during use.

Foam Backer

Our foam backer offers maximum cushion and flexibility, with rubber and foam. We offer this backer in a 5 and 7 inch size, and the attachment is 5/8-11.

Snaillock Holders

Superabrasive offers a variety of snaillock holder options, designed for automated wet-polishing single- and multi-head machines. They are available in 4 and 5 inch sizes, with hard plastic or rubber. We also offer a special thick holder for the GF ProEdge System.

Ogee Backer

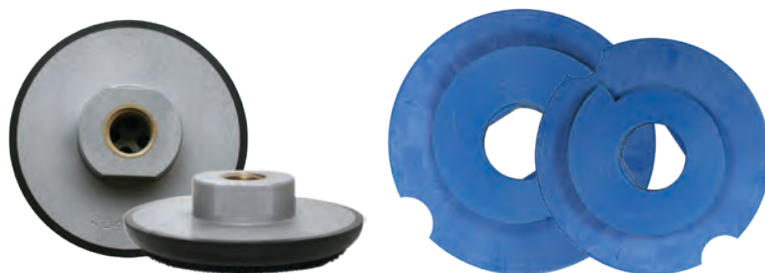
Item Number	Description	Size	Attachment
3.25-AL-5/8-11-R	Aluminum backer with ogee radius and rubber	3.25in / 83mm	5/8-11

Foam Backer

Item Number	Description	Size	Attachment
RB5-5/8-11-FOAM	Yellow rubber backer with foam, 5/8-11, 5 inch	5in / 125mm	5/8-11
RB7-5/8-11-FOAM	Yellow rubber backer with foam, 5/8-11, 7 inch	7in / 180mm	5/8-11

Snaillock Holders

Item Number	Description	Size	Attachment
GF-SNAILLOCK4	Snaillock holder, rigid, hard plastic, 4 inch	4in / 100mm	snaillock
RIG5-SL	Snaillock holder, rigid, hard plastic, 5 inch	5in / 125mm	snaillock



Adapters

Superabrasive manufactures a wide variety of adapters for various tools and applications. Custom produced adapters are also available upon request, in most cases. Contact Superabrasive for additional information.

Item Number	Description
AD5/8-11-F	Adapter with 5/8-11 attachment, female
AD1/2-5/8-11	Adapter with 5/8-11 attachment, 1/2 inch
AD-G1/2x5/8-11	Adapter for attaching 1/2 GAS to 5/8-11 thread
AD-CNC-ANC	CNC adapter for 3/8 shank anchor bits
AD-G1/2-ROUT-10mm	Adapter for router bits with a 10mm bolt to 1/2 GAS
AD-G1/2-M14-CNC-L58	Adapter for attaching 1/2 GAS to M14 male thread for CNC



Business Terms

Business Terms (please call for business terms in Europe)

- Operating business hours are Monday through Friday from 8:30am to 5:00pm EST.
- Orders may be placed via fax or e-mail. A hard copy purchase order is required.
- Orders placed by 3:30p.m. EST will be shipped out the same day in most cases.
- All shipments are F.O.B. Atlanta (Hoschton), GA or Krun, Bulgaria unless otherwise stated.
- Shipping charges are based on the package weight, value, and final destination.
- Prices are subject to increase or decrease due to manufacturing cost changes.
- Payment terms of net 30 days is available with approved credit.
- A late payment charge of 1.5% per month will be added to accounts after 30 days.

Return Policy

- Superabrasive does not accept returns after 90 days from the date of invoice.
- Before returning items, first contact a representative who will determine the best solution for your individual situation and issue a Return Authorization (RA) number, if needed.
- Returns will not be accepted without a completed RA form and an RA number.
- All returned items are subject to inspection prior to credit processing. In some instances, items can be replaced or repaired.
- A 15% restocking fee will be applied to non-defective product(s) and stock adjustment returns.
- Custom manufactured products cannot be returned (or refunded). Exceptions are made in cases involving manufacturing defects.

Damaged Shipments

- All shipments are carefully inspected before leaving our warehouse. If products are damaged during transit, be sure the driver acknowledges the damage on the delivery documents. If the driver does not acknowledge the damage on the documents, or if the said damage is not reported to the driver, damage costs may not be recuperated.

Liability

- For any product found to be defective, Superabrasive will replace only the quantities determined to be defective.
- We are not liable for any injury, loss, or damage that is caused by improper use of the product(s). It is the responsibility of the customer to educate himself/herself and fully understand the products' intended use; therefore, the customer assumes all risks associated with the use of the product(s).
- Warranties do not apply to any products which have been altered, changed or modified in any way.

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