

# PRECISION SURFACES INTERNATIONAL, INC.

922 ASHLAND STREET  
HOUSTON, TEXAS 77008-6734

+1-713-426-2220

800-843-0950

FAX +1-713-426-2223

FAX 800-414-1644

[www.psidragon.com](http://www.psidragon.com)

[info@psidragon.com](mailto:info@psidragon.com)

## CONSUMABLES FOR SUPERFINISHING

DYNABRADE TOOLS

DIAMOND MOUNTED POINTS

3M DIAMOND MICROFINISHING FILM

3M DIAMOND CLOTH DRY BELTS & DISCS

3M DIAMOND LAPPING FILM

3M MICROFINISHING FILM

DIAMOND COMPOUND (PASTE)

CARBIDE BURRS

3M FLEXIBLE DIAMOND

3M TRIZACT DIAMOND CLOTH BELTS

3M DIAMOND CLOTH

3M LAPPING FILM

3M POLISHING PAPER

DIAMOND SUSPENSION



QUALITY PRODUCTS, PRICED REASONABLY, DELIVERED PROMPTLY

2018

## AS A CUSTOMER OF PSI, YOU WILL LIKE TO KNOW:

1. Your complete satisfaction is our primary goal.
2. You are always assured of receiving the finest quality products available.
3. Your purchasing convenience is an important part of our service. Our toll-free line allows you to order nine hours a day. If you prefer to order by FAX, you may do so at any time of the day or night at 713-426-2223. Orders are also accepted via e-mail to [psiorders@psidragon.com](mailto:psiorders@psidragon.com) or through our store at [www.psidragon.com](http://www.psidragon.com).
4. You are assured of receiving the best prices possible. You be the judge; compare our prices.
5. Your order will be processed quickly and efficiently. If we cannot ship your order within ten working days, you will be advised.
6. Prices are subject to change. You will be advised of any price change at time of order.
7. Orders are shipped F.O.B. PSI. We will prepay and add the freight charges to the invoice. U.S. Department of Transportation defined "Hazardous Materials" will be packaged as required and a carrier's surcharge will be added to the invoice.
8. Our payment terms are Net 30 Days, with approved credit.
9. We accept **VISA, MasterCard, American Express, and Discover** charge cards.
10. Quantity discounts are available as shown.

***We appreciate your business.  
Our prosperity and very existence is totally dependent on our customers' good will.***

---

### **Important notice to the purchaser:**

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties expressed or implied: Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therein. No statement or recommendation not contained herein shall have any force or effect unless in an agreement by officers of seller and manufacturer.

---

# TABLE OF CONTENTS

## DYNABRADE TOOLS

Dynafiles.....	5
Pencil Grinders .....	5
Die Grinders.....	5
Reciprocating Filer .....	5
Tool Post Machines .....	6
Accessories .....	6

## CARBIDE BURRS.....7

## DIAMOND MOUNTED POINTS.....8

## DIAMOND TAPERED HONES .....8

## DIAMOND DRILLS

Micro Drills.....	9
Core Drills .....	9
Mounted Core Drills .....	9

## DIAMOND FILES

Machine Files.....	10
Hand Files .....	10
Needle Files.....	11

## FLEXIBLE DIAMOND

Hand Pads.....	13
Hand Files .....	13
Plain Back Sheets .....	14
Pressure Sensitive Adhesive Back Sheets .....	14
Quick Release System (Hook & Loop) Sheets .....	14
Small Belts.....	15
Large Belts.....	15
Bands .....	17
Band Holders.....	17
Quick Release System (Hook & Loop) Discs.....	18
Roloc Discs.....	21
Pressure Sensitive Adhesive Back Discs .....	22

## DIAMOND MICROFINISHING FILM

3in x 6in Sheets .....	24
8.5in x 11in Sheets .....	24
Small Belts.....	25
Large Belts.....	26
Superfinishing Rolls .....	27

## TRIZACT DIAMOND CLOTH

Small Belts.....	29
Large Belts.....	29

## DIAMOND CLOTH DRY

Small Belts.....	31
Large Belts.....	31
Roloc Discs.....	32

## DIAMOND CLOTH (TRADITIONAL)

3in x 6in Sheets .....	34
9in x 11in Sheets .....	34
Belts .....	35

## DIAMOND LAPPING FILM

3in x 6in Sheets .....	37
9in x 11 in Sheets .....	38
Superfinishing Rolls .....	39

## LAPPING FILM

8.5in x 11in Sheets .....	42
Superfinishing Rolls .....	43

## MICROFINISHING FILM

8.5in x 11in Sheets .....	45
Superfinishing Rolls .....	46

## POLISHING PAPER

8.5in x 11in Sheets .....	48
---------------------------	----

## DIAMOND COMPOUND AND SUSPENSION

Diamond Compound .....	50
Diamond Extender .....	50
Diamond Suspension.....	50

## DYNABRADE TOOLS

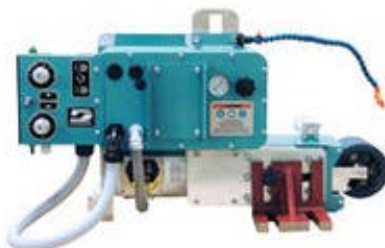
We are pleased to widen our current offering of Dynabrade tools and services to include:

- Dynaflex Belt Tools
- Pencil Grinders
- Die Grinders (Straight or Angle)
- Dynadie III Reciprocating Filer
- Superfinisher
- Tool Post Belt Grinders



- Versatility Grinder
- Contact Arms
- Couplers and Connectors
- Modular Filter-Regulator-Lubricator
- Coolant Filtration System
- Dynabrade Tool Repair

Please feel free to contact us if you have any questions or if you are looking for a specific tool we do not list. We would be glad to discuss our products with you.



## DYNABRADE TOOLS DYNAFILES

DESCRIPTION	PSI #
Dynafile "Original" Belt Machine, ½" x 24" (13mm x 609mm), 11218 Arm	<b>DYN-14000</b>
Contact Arm, Turbine Blades, 5/16" x 3/8" wide, Steel Wheel	<b>DYN-11213</b>
Contact Arm, Standard, 5/8" x 3/8" wide, Rubber Wheel	<b>DYN-11218</b>
Dynafile II Belt Machine, ½" x 18" (13mm x 457mm), 11206 Arm	<b>DYN-40320</b>
Contact Arm, Narrow, 5/16" x 3/8" wide, Steel Wheel	<b>DYN-11201</b>
Contact Arm, Standard, 5/8" x 3/8" wide, Rubber Wheel	<b>DYN-11203</b>
Contact Arm, Standard, 3/4" x 5/8" wide, Rubber Wheel	<b>DYN-11206</b>
Contact Arm, Turbine Blades, 1/4" x 3/8" wide, Steel Wheel	<b>DYN-11300</b>
Contact Arm, Turbine Blades, 5/16" x 3/8" wide, Steel Wheel	<b>DYN-11301</b>



## PENCIL GRINDERS

DESCRIPTION	COLLET	CAP COLOR	RPM	PSI #
Precision Pencil Grinder	1/8"	Red	35,000	<b>DYN-51706</b>
Precision Pencil Grinder	1/8"	Gold	50,000	<b>DYN-51703</b>
Precision Pencil Grinder	1/8"	Teal	60,000	<b>DYN-51700</b>
Precision Pencil Grinder	1/8"	Silver	100,000	<b>DYN-51810</b>



## DIE GRINDERS

DESCRIPTION	COLLET	RPM	PSI #
Straight-Line, Standard Duty, Gearless, Extended Muffler	1/4"	25,000	<b>DYN-48201</b>
Straight-Line, Heavy Duty, Steel Housing, Rubber Grip	1/4"	24,000	<b>DYN-53808</b>
Right-Angle, Geared Head, Rear Exhaust, Extended Muffler	1/4"	20,000	<b>DYN-50002</b>
Right-Angle, 7" Offset, Gearless, Rear Exhaust, Ext Muffler	1/4"	25,000	<b>DYN-52205</b>

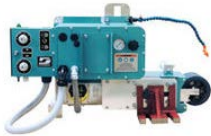


## RECIPROCATING FILER

DESCRIPTION	COLLET	SPM	PSI #
Dynadie III, Variable-Length Stroke 0-1/4", Shanked Files	1/8" & 1/4"	5,000	<b>DYN-12250</b>



## TOOL POST MACHINES



DESCRIPTION	PSI #
Superfinisher, Tool-Post Mounted, 115 Volt, Adaptable Configuration 1" to 4" (25mm to 102mm) wide rolls	<b>DYN-64000</b>
1" Contact Wheel Assembly, 1" (25mm) Wide, 70 Durometer	<b>DYN-63981</b>
2" Contact Wheel Assembly, 2" (51mm) Wide, 70 Durometer	<b>DYN-63984</b>
3" Contact Wheel Assembly, 3" (76mm) Wide, 70 Durometer	<b>DYN-63987</b>
4" Contact Wheel Assembly, 4" (102mm) Wide, 70 Durometer	<b>DYN-63990</b>
Precision Wet Tool Post Grinder, 230 Volt, Air-Powered Belt Tensioning 2" x 36" (51mm x 914mm) belt 4,500 SFPM	<b>DYN-64991</b>
Precision Wet Tool Post Grinder, 230 Volt, Air-Powered Belt Tensioning 2" x 48" (51mm x 1.22m) belt 2,500 – 10,500 SFPM	<b>DYN-65752</b>
Versatility Grinder, Variable Speed, 115 Volt, Adaptable Configuration 1/4" – 2" x 72" (6mm – 51mm x 1.3m) belt 600 – 4,000 SFPM	<b>DYN-64900</b>
Versatility Grinder Slack Arm Attachment: Curved, Tapered, Convex Shapes 1/2" – 2" x 96" (13mm x 2.44m) belt	<b>DYN-67250</b>

## DYNABRADE ACCESSORIES



DESCRIPTION	PSI #
Dynabrade Tool Repair	<b>Contact US</b>
Contact Arms – Available for various applications	<b>Contact US</b>
Contact Wheel Assemblies for Contact Arms	<b>Contact US</b>
Platen Pads – Available for various applications	<b>Contact US</b>
Dynabrade Parts and Accessories not listed are available	<b>Contact US</b>
Air Tool Couplers, Composite, Teal, 1/4"NPT Inlet, Female	<b>DYN-94920</b>
Air Tool Couplers, Composite, Teal, 1/4"NPT Inlet, Male	<b>DYN-94980</b>
Dynaswivel Air Line Connector, Composite, 1/4"NPT Inlet	<b>DYN-94300</b>
Dynaswivel Air Line Connector with Flow Control, 1/4"NPT Inlet	<b>DYN-94407</b>
Modular Filter-Regulator-Lubricator for Air Supply	<b>DYN-10681</b>
Coolant Filtration System, Portable, 40 gallon tank	<b>DYN-68000</b>
5 micron Disposable Filter Cartridge	<b>DYN-66635</b>
1 micron Disposable Filter Cartridge	<b>DYN-66631</b>

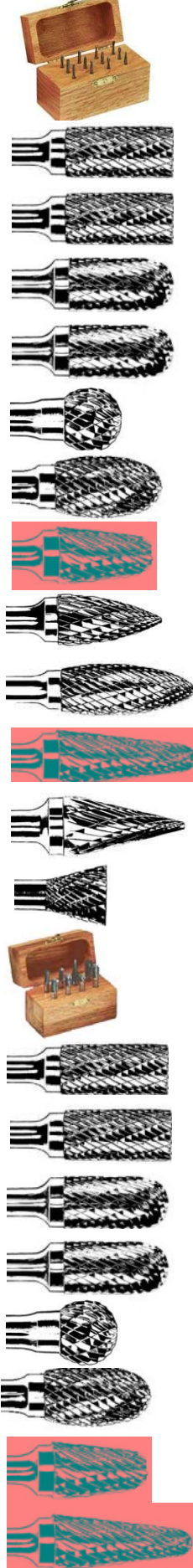


## CARBIDE BURRS (1/8" SHANK)





SHAPE	TOOL STYLE	CUT STYLE	CUTTER DIAMETER	FLUTE LENGTH	SHANK	PSI #
Burr Kit (12 Pieces)	All 1/8" Styles	Double	Various	Various	1/8"	DYN-93351
Cylinder	SA-42	Double	3/32"	7/16"	1/8"	DYN-93338
Cylinder	SA-43	Double	1/8"	9/16"	1/8"	DYN-93339
Cylinder, Radiused End	SC-41	Double	3/32"	7/16"	1/8"	DYN-93340
Cylinder, Radiused End	SC-42	Double	1/8"	9/16"	1/8"	DYN-93341
Ball	SD-42	Double	1/8"	1/8"	1/8"	DYN-93342
Oval	SE-41	Double	1/8"	7/32"	1/8"	DYN-93343
Tree, Radiused End	SF-42	Double	1/8"	1/2"	1/8"	DYN-93344
Tree, Radiused End	SG-44	Double	1/8"	1/2"	1/8"	DYN-93345
Flame, Pointed End	SH-41	Double	1/8"	1/4"	1/8"	DYN-93346
Taper, Radiused End	SL-42	Double	1/8"	1/2"	1/8"	DYN-93347
14 Degree, Cone End	SM-42	Double	1/8"	7/16"	1/8"	DYN-93348
10 Degree, Inverted Cone	SN-42	Double	1/8"	3/16"	1/8"	DYN-93349

## CARBIDE BURRS (1/4" SHANK)





Burr Kit (8 Pieces)	All 1/4" Styles	Double	Various	Various	1/4"	DYN-93350
Cylinder	SA-1	Double	1/4"	5/8"	1/4"	DYN-93330
Cylinder	SA-3	Double	3/8"	3/4"	1/4"	DYN-93331
Cylinder, Radiused End	SC-1	Double	1/4"	5/8"	1/4"	DYN-93332
Cylinder, Radiused End	SC-3	Double	3/8"	3/4"	1/4"	DYN-93333
Ball	SD-3	Double	3/8"	5/16"	1/4"	DYN-93334
Oval	SE-3	Double	3/8"	5/8"	1/4"	DYN-93335
Tree, Radiused End	SF-3	Double	3/8"	3/4"	1/4"	DYN-93336
Taper, Radiused End	SL-3	Double	3/8"	1-1/16"	1/4"	DYN-93337



## DIAMOND MOUNTED POINTS

	DESCRIPTION	HEAD DIAMET ER	HEAD LENGT H	NECK LENGT H	GRIT	PSI #
 	Mounted Point, Diamond, <b>1/8" Shank,</b> <b>2-1/4" Overall Length</b>	0.060"	0.157"	0.50"	100	<b>DMP-1001C</b>
		0.060"	0.157"	0.50"	150	<b>DMP-1001M</b>
		0.060"	0.157"	0.50"	200	<b>DMP-1001F</b>
		0.100"	0.157"	0.50"	100	<b>DMP-1002C</b>
		0.100"	0.157"	0.50"	150	<b>DMP-1002M</b>
		0.100"	0.157"	0.50"	200	<b>DMP-1002F</b>
		0.250"	0.312"	0.50"	100	<b>DMP-1003C</b>
		0.250"	0.312"	0.50"	150	<b>DMP-1003M</b>
		0.250"	0.312"	0.50"	200	<b>DMP-1003F</b>
 	Mounted Point, Diamond, <b>1/4" Shank,</b> <b>3" Overall Length</b>	0.250"	0.250"	1.0"	100	<b>DMP-4001C</b>
		0.250"	0.250"	1.0"	200	<b>DMP-4001F</b>
		0.375"	0.375"	N/A	100	<b>DMP-4002C</b>
		0.375"	0.375"	N/A	200	<b>DMP-4002F</b>
		0.500"	0.375"	N/A	100	<b>DMP-4003C</b>
		0.500"	0.375"	N/A	200	<b>DMP-4003F</b>

## DIAMOND TAPERED HONES

	DESCRIPTION	SHANK DIAMET ER	ANGL E	GRIT	PSI #
 	Tapered Hone, Diamond, <b>1/8" Shank,</b> <b>3" Overall Length</b>	1/8"	6°	150	<b>DTH-1806</b>
		1/8"	8°	150	<b>DTH-1808</b>
		1/8"	12°	150	<b>DTH-1812</b>
 	Tapered Hone, Diamond, <b>1/4" Shank,</b> <b>3" Overall Length</b>	1/4"	12°	100	<b>DTH-2512C</b>
		1/4"	12°	150	<b>DTH-2512M</b>
		1/4"	14°	150	<b>DTH-2514</b>
		1/4"	16°	150	<b>DTH-2516</b>



## DIAMOND MICRO DRILLS

DESCRIPTION	HEAD DIAMETER	HEAD LENGTH	DRILL DEPTH	GRIT	PSI #
Micro Drill, Diamond,	0.016"	0.062"	0.093"	200	<b>DMD-1001</b>
<b>1/8" Shank</b>	0.018"	0.062"	0.125"	200	<b>DMD-1002</b>
<b>1" Overall Length</b>	0.020"	0.062"	0.125"	200	<b>DMD-1003</b>
	0.025"	0.093"	0.156"	200	<b>DMD-1004</b>
	0.030"	0.093"	0.156"	150	<b>DMD-1005</b>
	0.035"	0.093"	0.187"	150	<b>DMD-1006</b>
<b>NORTON</b>	0.040"	0.125"	0.218"	150	<b>DMD-1007</b>
	0.045"	0.125"	0.218"	100	<b>DMD-1008</b>
	0.050"	0.125"	0.250"	100	<b>DMD-1009</b>
	0.060"	0.125"	0.312"	100	<b>DMD-1010</b>
	0.065"	0.125"	0.312"	100	<b>DMD-1011</b>



## DIAMOND CORE DRILLS

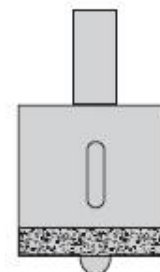
DESCRIPTION	OUTER DIAMETER	INNER DIAMETER	GRIT	PSI #
Core Drill, Diamond,	1/16"	0.023"	150	<b>DCD-1001</b>
<b>2" Overall Length</b>	3/32"	0.048"	150	<b>DCD-1002</b>
	1/8"	0.075"	150	<b>DCD-1003</b>
	5/32"	0.110"	150	<b>DCD-1004</b>
<b>NORTON</b>	3/16"	0.140"	100	<b>DCD-1005</b>
	1/4"	0.195"	100	<b>DCD-1006</b>
	5/16"	0.255"	100	<b>DCD-1007</b>
	3/8"	0.325"	100	<b>DCD-1008</b>
	1/2"	0.398"	80	<b>DCD-1009</b>





















## DIAMOND MOUNTED CORE DRILLS

DESCRIPTION	OUTER DIAMETER	PILOT DIAMETER	GRIT	PSI #
Mounted Core Drill, Diamond,	1/2"	1/8"	40	<b>DCD-1101</b>
<b>NORTON 8" Wrap</b>	3/4"	1/4"	40	<b>DCD-1102</b>
<b>3/8" Shank Diameter</b>	1"	1/4"	40	<b>DCD-1103</b>
<b>3.45" Overall Length</b>	1-1/4"	1/4"	40	<b>DCD-1104</b>
	1-1/2"	1/4"	40	<b>DCD-1105</b>

Pilots are removable.
















## DIAMOND MACHINE FILES

DESCRIPTION	SHAPE	SIZE	GRIT	PSI #
Machine File, Diamond,		0.020" x 0.125"	100	<b>DMF-1001</b>
<b>5/8" Diamond Length</b>		0.030" x 0.125"	100	<b>DMF-1002</b>
<b>1/8" Shank Diameter</b>		0.040" x 0.125"	100	<b>DMF-1003</b>
<b>2" Overall Length</b>		0.120" x 0.040"	100	<b>DMF-1004</b>
		0.157" x 0.040"	100	<b>DMF-1005</b>
		0.203" x 0.078"	100	<b>DMF-1006</b>
		0.120" x 0.040"	100	<b>DMF-1007</b>
		0.098" x 0.196"	100	<b>DMF-1008</b>
		0.120" x 0.250"	100	<b>DMF-1009</b>
		0.078 side	100	<b>DMF-1010</b>
		0.127 side	100	<b>DMF-1011</b>
		0.157 side	100	<b>DMF-1012</b>
		0.042 diameter	100	<b>DMF-1013</b>
		0.080 diameter	100	<b>DMF-1014</b>
		0.127 diameter	100	<b>DMF-1015</b>
		0.157 diameter	100	<b>DMF-1016</b>
		0.060 radius	100	<b>DMF-1017</b>
		0.078 radius	100	<b>DMF-1018</b>





















**NORTON**

## DIAMOND HAND FILES

DESCRIPTION	SHAPE	SIZE	GRIT	PSI #
Hand File, Diamond,		1/8" x 1/8"	100	<b>DHF-1001</b>
<b>1-1/2" Diamond Length</b>		1/8" x 1/4"	100	<b>DHF-1002C</b>
<b>6" Overall Length</b>		1/8" x 1/4"	200	<b>DHF-1002F</b>
		1/8" x 1/4"	100	<b>DHF-1003</b>
		1/8" x 3/8"	100	<b>DHF-1004C</b>
		1/8" x 3/8"	200	<b>DHF-1004F</b>
		1/8" x 3/8"	100	<b>DHF-1005</b>
		1/8" x 1/2"	100	<b>DHF-1006</b>
		1/8"	100	<b>DHF-1007</b>
		1/4"	100	<b>DHF-1008</b>
		1/8"	100	<b>DHF-1009C</b>
		1/8"	200	<b>DHF-1009F</b>
		1/4"	100	<b>DHF-1010</b>

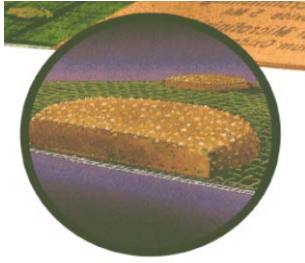
**NORTON**

## DIAMOND NEEDLE FILES

DESCRIPTION	SHAPE	SIZE	GRIT	PSI #
Needle File, Diamond,		0.400" x 0.100"	100	<b>DNF-1001C</b>
<b>4-1/4" Diamond Length</b>		0.400" x 0.100"	200	<b>DNF-1001F</b>
<b>8-1/2" Overall Length</b>		0.450" x 0.150"	100	<b>DNF-1002C</b>
		0.485" x 0.150"	200	<b>DNF-1002F</b>
Needle File, Diamond,		0.055" x 0.190"	100	<b>DNF-1101</b>
<b>2-3/4" Diamond Length</b>		0.075" x 0.210"	100	<b>DNF-1102</b>
<b>5-3/4" Overall Length</b>		0.145" x 0.145"	100	<b>DNF-1103</b>
Handle Included		0.100" x 0.100"	100	<b>DNF-1104</b>
		0.120" diameter	100	<b>DNF-1105</b>
		0.055" x 0.190"	100	<b>DNF-1106</b>
Needle File, Diamond,		0.150" x 0.105"	200	<b>DNF-1201</b>
<b>3" Diamond Length</b>		0.218" x 0.072"	200	<b>DNF-1202</b>
<b>5-1/2" Overall Length</b>		0.205" x 0.058"	200	<b>DNF-1203</b>
Handle Included		0.096" x 0.096"	200	<b>DNF-1204</b>
		0.138" x 0.138"	200	<b>DNF-1205</b>
		0.118" diameter	200	<b>DNF-1206</b>
		0.197" x 0.088"	200	<b>DNF-1207</b>
		0.205" x 0.067"	200	<b>DNF-1208</b>



## FLEXIBLE DIAMOND



PSI Flexible Diamond Products, manufactured by the 3M Company, are the most innovative products available for grinding and finishing extremely hard and tough materials. The flexible diamond technology is a precision micron grading system, consisting of diamond particles anchored in electroplated nickel (Ni) pellets, that provides precise cutting and uniform surfaces. Its ability to polish the most difficult materials quickly makes Flexible Diamond Products a necessity for grinding and polishing ceramic, glass, stone, carbide, composites, exotic alloys and other hard to grind materials. The products are offered in a full range of grades for grinding and finishing.

PSI Flexible Diamond Products are available in 6 forms, 6 micron grades, a variety of backings, and all share a color coded system for easy grade identification. The forms available are Bands, Belts, Discs, Files, Hand Pads, and Sheets

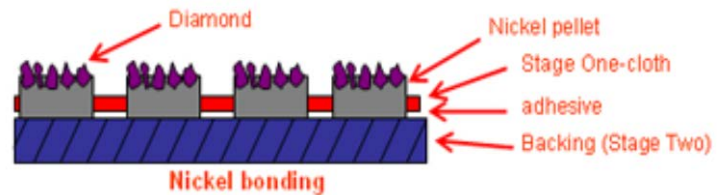
Diamond bands are used for many different applications and are available in 1/2", 3/4", 1", and 2" diameters and 1" in length. Ask PSI about the band holders.

Flexible Diamond Belts have the durability and aggressiveness of diamond on backings that range from very flexible to heavy duty. Flexible Diamond belts are available in 1/2" to 15" wide and 9" to 200" in length.

Flexible Diamond Discs have a variety of sizes and backings to suit your needs. Most disc sizes are available with a Plain (PB), Pressure Sensitive Adhesive (PSA), QRS (Hook & Loop), or Magnetic backing. Roloc discs are available in 1" to 3" diameter. Some applications are available with a Center Water Feed application as well. PSI also stocks all applicable back-up pads for a variety of tools.

Color coded Diamond Files have the durability and aggressiveness of diamond on a high strength, plastic holder in 4 different shapes and sizes. Diamond files are ideal for hand work on small, difficult-to-grind materials, and areas that are hard to reach with conventional tools.

The color coded Hand Pads have the durability and aggressiveness of diamond on a high strength, flexible 2.25" x 3.75" pad. Diamond hand pads are used for applications such as hand finishing ceramics, composites, quartz, stone, and plastics.



Flexible Diamond Sheets are available in a number of sizes. Backing configurations include Plain, Pressure Sensitive Adhesive (PSA), QRS (Hook & Loop), and Very Flexible.

The learning curve of Flexible Diamond products is somewhat steep, but the rewards are dramatic. Difficult materials can be processed in a few minutes. Using Flexible Diamond Products with a liquid coolant will prolong the life of the product and obtain a more stable surface finish.

AVAILABLE FLEXIBLE DIAMOND GRADES		
Color	Micron	Grit
Green	250 $\mu$	60
Black	125 $\mu$	120
Red	74 $\mu$	200
Yellow	40 $\mu$	320
White	20 $\mu$	500
Blue	10 $\mu$	1200

## 3M FLEXIBLE DIAMOND HAND PADS

DESCRIPTION	MICRON	GRIT	PSI #
2¼" x 3¾" (57mm x 95mm), 1" (25mm) Thick, Metal Bond  <b>3M</b>	250	60	HP-7-GREEN-250M
	125	120	HP-7-BLACK-125M
	74	200	HP-7-RED-74M
	40	320	HP-7-YELLOW-40M
	20	500	HP-7-WHITE-20M
Resin Bond	10	1200	HP-7-BLUE-10M
	30	400	HP-7-YELLOW-30R
	10	1200	HP-7-BLUE-10R



## HAND FILES

DESCRIPTION	MICRON	GRIT	PSI #
1½" x ¾" (38mm x 19mm), Metal Bond, Flat  <b>3M</b>	125	120	F1-BLACK-125M
	74	200	F1-RED-74M
	40	320	F1-YELLOW-40M
	20	500	F1-WHITE-20M
1¾" x ½" (44mm x 13mm), Metal Bond, Flat	125	120	F2-BLACK-125M
	74	200	F2-RED-74M
	40	320	F2-YELLOW-40M
	20	500	F2-WHITE-20M
1¾" x ½" (44mm x 13mm), Metal Bond, Half Round	125	120	F3-BLACK-125M
	74	200	F3-RED-74M
2½" x ¼" (63mm x 6mm), Metal Bond, Flat	125	120	F4-BLACK-125M
	74	200	F4-RED-74M



## 3M FLEXIBLE DIAMOND PLAIN BACK SHEETS



**3M**

DESCRIPTION	MICRON	GRIT	PSI #
3" x 6" (76mm x 152mm), Plain Back,	250	60	SPB-3x6-250M
Metal Bond	125	120	SPB-3x6-125M
	74	200	SPB-3x6-74M
	40	320	SPB-3x6-40M
	20	500	SPB-3x6-20M
	10	1200	SPB-3x6-10M

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

M  
a

## PRESSURE SENSITIVE ADHESIVE SHEETS



**3M**

DESCRIPTION	MICRON	GRIT	PSI #
3" x 6" (76mm x 152mm), PSA Back,	250	60	SPS-3x6-250M
Metal Bond	125	120	SPS-3x6-125M
	74	200	SPS-3x6-74M
	40	320	SPS-3x6-40M
	20	500	SPS-3x6-20M
	10	1200	SPS-3x6-10M

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## QUICK RELEASE SYSTEM (HOOK & LOOP) SHEETS



**3M**

DESCRIPTION	MICRON	GRIT	PSI #
2 3/4" x 5" (70mm x 127mm), QRS Back,	250	60	SQ-2.75x5-250M
Metal Bond	125	120	SQ-2.75x5-125M
	74	200	SQ-2.75x5-74M
	40	320	SQ-2.75x5-40M
	20	500	SQ-2.75x5-20M
	10	1200	SQ-2.75x5-10M

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.



## 3M FLEXIBLE DIAMOND SMALL BELTS

DESCRIPTION	MICRON	GRIT	PSI #
<div>1/2" x 18" (13mm x 457mm), Metal Bond</div> <div>3M</div>	250	60	B1/2x18-GRN-250M
	125	120	B1/2x18-BLK-125M
	74	200	B1/2x18-RED-74M
	40	320	B1/2x18-YEL-40M
	20	500	B1/2x18-WHT-20M
	10	1200	B1/2x18-BLU-10M
<div>1/2" x 24" (13mm x 609mm), Metal Bond</div> <div>3M</div>	250	60	B1/2x24-GRN-250M
	125	120	B1/2x24-BLK-125M
	74	200	B1/2x24-RED-74M
	40	320	B1/2x24-YEL-40M
	20	500	B1/2x24-WHT-20M
	10	1200	B1/2x24-BLU-10M
<div>3/4" x 18" (19mm x 457mm), Metal Bond</div> <div>3M</div>	250	60	B3/4x18-GRN-250M
	125	120	B3/4x18-BLK-125M
	74	200	B3/4x18-RED-74M
	40	320	B3/4x18-YEL-40M
	20	500	B3/4x18-WHT-20M
	10	1200	B3/4x18-BLU-10M









## LARGE BELTS

DESCRIPTION	MICRON	GRIT	PSI #
<div>1" x 30" (25mm x 762mm), Metal Bond</div> <div>3M</div>	250	60	B1x30-GRN-250M
	125	120	B1x30-BLK-125M
	74	200	B1x30-RED-74M
	40	320	B1x30-YEL-40M
	20	500	B1x30-WHT-20M
	10	1200	B1x30-BLU-10M
<div>1 1/8" x 21" (31mm x 534mm), Metal Bond</div> <div>3M</div>	250	60	B1.12x21-GRN-250M
	125	120	B1.12x21-BLK-125M
	74	200	B1.12x21-RED-74M
	40	320	B1.12x21-YEL-40M
	20	500	B1.12x21-WHT-20M
	10	1200	B1.12x21-BLU-10M



Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

### 3M FLEXIBLE DIAMOND LARGE BELTS (continued)

DESCRIPTION	MICRON	GRIT	PSI #
 <b>3M</b> 1" x 64" (25mm x 1.63m), Metal Bond	250	60	B1x64-GRN-250M
	125	120	B1x64-BLK-125M
	74	200	B1x64-RED-74M
	40	320	B1x64-YEL-40M
	20	500	B1x64-WHT-20M
	10	1200	B1x64-BLU-10M
 <b>3M</b> 1 3/4" x 48" (44mm x 1.22m), Metal Bond	250	60	B1.75x48-GRN-250M
	125	120	B1.75x48-BLK-125M
	74	200	B1.75x48-RED-74M
	40	320	B1.75x48-YEL-40M
	20	500	B1.75x48-WHT-20M
	10	1200	B1.75x48-BLU-10M
 <b>3M</b> 2" x 36" (51mm x 914mm), Metal Bond	250	60	B2x36-GRN-250M
	125	120	B2x36-BLK-125M
	74	200	B2x36-RED-74M
	40	320	B2x36-YEL-40M
	20	500	B2x36-WHT-20M
	10	1200	B2x36-BLU-10M
 <b>3M</b> 2" x 48" (51mm x 1.22m) Metal Bond	250	60	B2x48-GRN-250M
	125	120	B2x48-BLK-125M
	74	200	B2x48-RED-74M
	40	320	B2x48-YEL-40M
	20	500	B2x48-WHT-20M
	10	1200	B2x48-BLU-10M
 <b>3M</b> 2" x 72" (51mm x 1.83m), Metal Bond	250	60	B2x72-GRN-250M
	125	120	B2x72-BLK-125M
	74	200	B2x72-RED-74M
	40	320	B2x72-YEL-40M
	20	500	B2x72-WHT-20M
	10	1200	B2x72-BLU-10M
 <b>3M</b> 2" x 96" (51mm x 2.44m), Metal Bond	250	60	B2x96-GRN-250M
	125	120	B2x96-BLK-125M
	74	200	B2x96-RED-74M
	40	320	B2x96-YEL-40M
	20	500	B2x96-WHT-20M
	10	1200	B2x96-BLU-10M

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

M

## 3M FLEXIBLE DIAMOND BANDS

DESCRIPTION	MICRON	GRIT	PSI #
½" x 1" (13mm x 25mm), ID x Length, Metal Bond <div style="text-align: center; font-size: 2em; color: red; margin-top: 10px;">3M</div>	250	60	BND-1/2x1-250M
	125	120	BND-1/2x1-125M
	74	200	BND-1/2x1-74M
	40	320	BND-1/2x1-40M
	20	500	BND-1/2x1-20M
	10	1200	BND-1/2x1-10M
¾" x 1" (19mm x 25mm), ID x Length, Metal Bond <div style="text-align: center; font-size: 2em; color: red; margin-top: 10px;">3M</div>	250	60	BND-3/4x1-250M
	125	120	BND-3/4x1-125M
	74	200	BND-3/4x1-74M
	40	320	BND-3/4x1-40M
	20	500	BND-3/4x1-20M
	10	1200	BND-3/4x1-10M
1" x 1" (25mm x 25mm), ID x Length, Metal Bond <div style="text-align: center; font-size: 2em; color: red; margin-top: 10px;">3M</div>	250	60	BND-1x1-250M
	125	120	BND-1x1-125M
	74	200	BND-1x1-74M
	40	320	BND-1x1-40M
	20	500	BND-1x1-20M
	10	1200	BND-1x1-10M
2" x 1" (51mm x 25mm), ID x Length, Metal Bond <div style="text-align: center; font-size: 2em; color: red; margin-top: 10px;">3M</div>	250	60	BND-2x1-250M
	125	120	BND-2x1-125M
	74	200	BND-2x1-74M
	40	320	BND-2x1-40M
	20	500	BND-2x1-20M
	10	1200	BND-2x1-10M



## BAND HOLDERS

DESCRIPTION	PSI #
½" x 1" (13mm x 25mm)	BND-HLDR-1/2x1
¾" x 1" (19mm x 25mm)	BND-HLDR-3/4x1
1" x 1" (25mm x 25mm)	BND-HLDR-1x1
2" x 1" (51mm x 25mm)	BND-HLDR-2x1



# 3M FLEXIBLE DIAMOND QUICK RELEASE SYSTEM (HOOK & LOOP) DISCS 1", 1½", 2"



**3M**

DESCRIPTION	MICRON	GRIT	PSI #
1" (25mm), QRS, Metal Bond	250	60	DQ-1-GRN-250M
	125	120	DQ-1-BLK-125M
	74	200	DQ-1-RED-74M
	40	320	DQ-1-YEL-40M
	20	500	DQ-1-WHT-20M
	10	1200	DQ-1-BLU-10M
1½" (38mm), QRS, Metal Bond	250	60	DQ-1.5-GRN-250M
	125	120	DQ-1.5-BLK-125M
	74	200	DQ-1.5-RED-74M
	40	320	DQ-1.5-YEL-40M
	20	500	DQ-1.5-WHT-20M
	10	1200	DQ-1.5-BLU-10M
2" (51mm), QRS, Metal Bond	250	60	DQ-2-GRN-250M
	125	120	DQ-2-BLK-125M
	74	200	DQ-2-RED-74M
	40	320	DQ-2-YEL-40M
	20	500	DQ-2-WHT-20M
	10	1200	DQ-2-BLU-10M



**3M**



**3M**

DESCRIPTION	PSI #
QRS Roloc Disc Pad	1" (25mm) DQ-1-ROLOC-PAD
	1½" (38mm) DQ-1.5-ROLOC-PAD
	2" (51mm) DQ-2-ROLOC-PAD
Roloc Disc Pad, 1/4" Shaft Included	1" (25mm) DR-1-MED-¼S
	1½" (38mm) DR-1.5-MED-¼S
	2" (51mm) DR-2-MED-¼S
Roloc Disc Pad Shaft, ¼" OD, 20 threads/inch	DR-SHAFT-1/4-20
Adapter, 5/8"-11 Internal to 1/4"-20 External Thread	DR5/8-11:1/4-20



DESCRIPTION	SIZE	PSI #
Set of QRS with Roloc Pad	1" (25mm)	DQ-1-ROLOC-SET
	1½" (38mm)	DQ-1.5-ROLOC-SET

**3M**

Roloc Set includes 6 discs (1 each of 250,125,74,40,20,10 micron), 1 QRS pad, 1 Roloc pad, 1 shaft.  
Pencil Kit includes 15 QRS Discs (3 each of 125,74,40,20,10 micron), 1 Hook-It Pencil.

QRS = Quick Release System (Hook & Loop)

**3M FLEXIBLE DIAMOND  
QUICK RELEASE SYSTEM (HOOK & LOOP) DISCS  
3", 4", 5"**

DESCRIPTION	MICRON	GRIT	PSI #
3" x 1" (76mm x 25mm), QRS, Metal Bond <b>3M</b>	250	60	DQ-3x1-GRN-250M
	125	120	DQ-3x1-BLK-125M
	74	200	DQ-3x1-RED-74M
	40	320	DQ-3x1-YEL-40M
	20	500	DQ-3x1-WHT-20M
	10	1200	DQ-3x1-BLU-10M



DESCRIPTION	MICRON	GRIT	PSI #
4" x 1" (102mm x 25mm), QRS, Metal Bond <b>3M</b>	250	60	DQ-4x1-GRN-250M
	125	120	DQ-4x1-BLK-125M
	74	200	DQ-4x1-RED-74M
	40	320	DQ-4x1-YEL-40M
	20	500	DQ-4x1-WHT-20M
	10	1200	DQ-4x1-BLU-10M
5" x 1" (127mm x 25mm), QRS, Metal Bond <b>3M</b>	250	60	DQ-5x1-GRN-250M
	125	120	DQ-5x1-BLK-125M
	74	200	DQ-5x1-RED-74M
	40	320	DQ-5x1-YEL-40M
	20	500	DQ-5x1-WHT-20M
	10	1200	DQ-5x1-BLU-10M



DESCRIPTION	SIZE	PSI #
Hook-It Disc Pad,	3" x 5/8" (76mm x 16mm)	DQ-3x1-CWF-PAD
Center Water Feed	4" x 5/8" (102mm x 16mm)	DQ-4x1-CWF-PAD
	5" x 5/8" (127mm x 16mm)	DQ-5x1-CWF-PAD



QRS = Quick Release System (Hook & Loop)

# 3M FLEXIBLE DIAMOND QUICK RELEASE SYSTEM (HOOK & LOOP) DISCS 6", 7", 8", 12"



**3M**

DESCRIPTION	MICRON	GRIT	PSI #
6" x 1" (152mm x 25mm), QRS, Metal Bond	250	60	DQ-6x1-GRN-250M
	125	120	DQ-6x1-BLK-125M
	74	200	DQ-6x1-RED-74M
	40	320	DQ-6x1-YEL-40M
	20	500	DQ-6x1-WHT-20M
	10	1200	DQ-6x1-BLU-10M
7" x 1" (178mm x 25mm), QRS, Metal Bond	250	60	DQ-7x1-GRN-250M
	125	120	DQ-7x1-BLK-125M
	74	200	DQ-7x1-RED-74M
	40	320	DQ-7x1-YEL-40M
	20	500	DQ-7x1-WHT-20M
	10	1200	DQ-7x1-BLU-10M
8" x NH (203mm x NH), QRS, Metal Bond	250	60	DQ-8-GRN-250M
	125	120	DQ-8-BLK-125M
	74	200	DQ-8-RED-74M
	40	320	DQ-8-YEL-40M
	20	500	DQ-8-WHT-20M
	10	1200	DQ-8-BLU-10M
12" x NH (305mm x NH), QRS, Metal Bond	250	60	DQ-12-GRN-250M
	125	120	DQ-12-BLK-125M
	74	200	DQ-12-RED-74M
	40	320	DQ-12-YEL-40M
	20	500	DQ-12-WHT-20M
	10	1200	DQ-12-BLU-10M

QRS = Quick Release System (Hook & Loop)



DESCRIPTION	SIZE	PSI #
Hook-it Disc Pad, Center Water Feed	6" x 5/8" (152mm x 16mm)	DQ-6x1-CWF-PAD
	7" x 5/8" (178mm x 16mm)	DQ-7x1-CWF-PAD
	8" x 5/8" (203mm x 16mm)	DQ-8x1-CWF-PAD

N  
H = No Hole



# 3M FLEXIBLE DIAMOND ROLOC DISCS 1", 1½", 2", 3"

DESCRIPTION	MICRON	GRIT	PSI #
1" (25mm), Roloc, Metal Bond  <b>3M</b>	250	60	DR-1-GRN-250M
	125	120	DR-1-BLK-125M
	74	200	DR-1-RED-74M
	40	320	DR-1-YEL-40M
	20	500	DR-1-WHT-20M
	10	1200	DR-1-BLU-10M
1½" (38mm), Roloc, Metal Bond  <b>3M</b>	250	60	DR-1.5-GRN-250M
	125	120	DR-1.5-BLK-125M
	74	200	DR-1.5-RED-74M
	40	320	DR-1.5-YEL-40M
	20	500	DR-1.5-WHT-20M
	10	1200	DR-1.5-BLU-10M
2" (51mm), Roloc, Metal Bond  <b>3M</b>	250	60	DR-2-GRN-250M
	125	120	DR-2-BLK-125M
	74	200	DR-2-RED-74M
	40	320	DR-2-YEL-40M
	20	500	DR-2-WHT-20M
	10	1200	DR-2-BLU-10M
3" (76mm), Roloc, Metal Bond  <b>3M</b>	250	60	DR-3-GRN-250M
	125	120	DR-3-BLK-125M
	74	200	DR-3-RED-74M
	40	320	DR-3-YEL-40M
	20	500	DR-3-WHT-20M
	10	1200	DR-3-BLU-10M



DESCRIPTION	SIZE	PSI #
Roloc Disc Pad, 1/4" Shaft Included	1" (25mm)	DR-1-MED-1/4S
	1½" (38mm)	DR-1.5-MED-1/4S
	2" (51mm)	DR-2-MED-1/4S
	3" (76mm)	DR-3-MED-1/4S
Roloc Disc Pad Shaft, ¼" OD, 20 threads/inch		DR-SHAFT-1/4-20
Adapter, 5/8"-11 Internal to 1/4"-20 External Thread		DR5/8-11:1/4-20
Adapter, 5/8"-11 External to 1/4" Shaft		DR1/4S:5/8-11



**3M FLEXIBLE DIAMOND  
PRESSURE SENSITIVE ADHESIVE BACK DISCS**  
**1", 1½", 2", 3", 4"**



**3M**

DESCRIPTION	MICRON	GRIT	PSI #
1" x NH (25mm x NH), PSA Back, Metal Bond	250	60	DPS-1-GRN-250M
	125	120	DPS-1-BLK-125M
	74	200	DPS-1-RED-74M
	40	320	DPS-1-YEL-40M
	20	500	DPS-1-WHT-20M
	10	1200	DPS-1-BLU-10M



**3M**

1½" x NH (38mm x NH), PSA Back, Metal Bond	250	60	DPS-1.5-GRN-250
	125	120	DPS-1.5-BLK-125
	74	200	DPS-1.5-RED-74M
	40	320	DPS-1.5-YEL-40M
	20	500	DPS-1.5-WHT-20M
	10	1200	DPS-1.5-BLU-10M



**3M**

2" x NH (51mm x NH), PSA Back, Metal Bond	250	60	DPS-2-GRN-250M
	125	120	DPS-2-BLK-125M
	74	200	DPS-2-RED-74M
	40	320	DPS-2-YEL-40M
	20	500	DPS-2-WHT-20M
	10	1200	DPS-2-BLU-10M



**3M**

3" x NH (76mm x NH), PSA Back, Metal Bond	250	60	DPS-3-GRN-250M
	125	120	DPS-3-BLK-125M
	74	200	DPS-3-RED-74M
	40	320	DPS-3-YEL-40M
	20	500	DPS-3-WHT-20M
	10	1200	DPS-3-BLU-10M



**3M**

4" x NH (102mm x NH), PSA Back, Metal Bond	250	60	DPS-4-GRN-250M
	125	120	DPS-4-BLK-125M
	74	200	DPS-4-RED-74M
	40	320	DPS-4-YEL-40M
	20	500	DPS-4-WHT-20M
	10	1200	DPS-4-BLU-10M



DESCRIPTION	SIZE	PSI #
PSA Disc Holder, 1/4" Shank	1" (25mm)	DPS-1-MED-¼S
	1½" (38mm)	DPS-1.5-MED-¼S
	2" (51mm)	DPS-2-MED-¼S
	3" (76mm)	DPS-3-MED-¼S
	4" (102mm)	DPS-4-MED-¼S

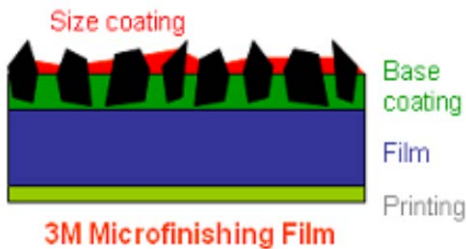
NH = No Hole      PSA = Pressure Sensitive Adhesive  
Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## DIAMOND MICROFINISHING FILM

Diamond Microfinishing Film Abrasives (DMFF), from PSI, are a set of new tools available for hard-to-grind applications. DMFF Products, manufactured by the 3M Company, can replace traditional coarse abrasive films commonly used on superfinishing equipment. Designed especially for fast finish reduction on hard materials, DMFF rolls allow target finishes to be achieved in fewer passes for greater productivity. With DMFF, superfinishing times can be cut in half or more, compared to traditional diamond honing stones and coarser diamond lapping film.



Excellent finish is achieved by the precision grading system used to select the diamond abrasive particles for each grade. Classified by the more accurate micron grading system, particle size grading is held to much tighter tolerances than conventional abrasive products. This results in a higher density of the specified particle size available to do the grinding required. This controlled uniformity of particle size, combined with electrostatic coating of the polyester film backing, provides an unexcelled grinding product.



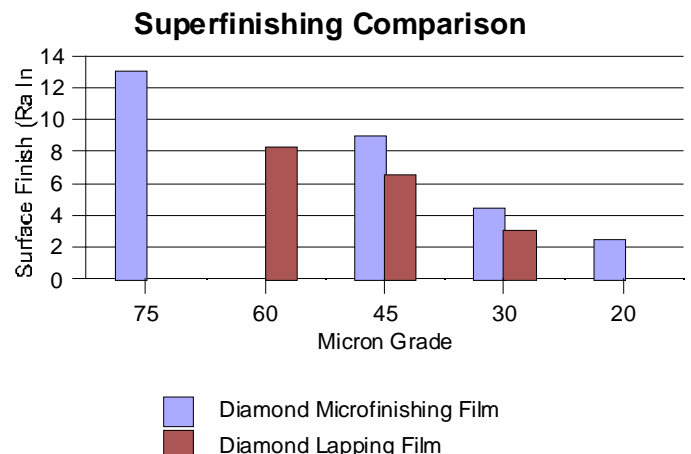
Product consistency is achieved and maintained through the grinding steps by the consistent 5 mil caliper of the dense, polyester backing. Unlike the traditional paper products, the abrasive particles cannot "recede" into the backing. This feature results in shorter grind times and longer life because the abrasive particles remain at the "cutting" interface. Shorter grind times mean less heat generation in the material being ground. Longer life means improved economics.

When a finer finish is required, Diamond Lapping Film can be used due to its ability to polish the most difficult hard and mixed hardness materials quickly, without pull-out and with incredible results.

DMFF GRADE COMPARISON CHART			
Micron	Color	ANSI (U.S.)	FEPA (European)
125	Orange	120	120
74	Teal	200	200
45	Yellow	280	320
30	Green	400	600
20	Beige	500	1000
9	Blue	1200	2000

If your work can benefit from a more consistent finish combined with shorter grinding cycles and longer abrasive life, you should consider Diamond Microfinishing Film Abrasives from PSI for your superfinishing needs.

Test Conditions			
Machine	2" GEM Superfinisher	RPM/SFPM	210/250
Film Speed	1"/min (30 on gauge)	Traverse Rate	12"/min
Roller Hardness	65 Shore A	Workpiece	WC Co Cr Thermal Spray
Roller Force	25 lbs/inch (30 psi on gauge)	Diameter	4.5"



## 3M DIAMOND MICROFINISHING FILM 3" x 6" (76mm x 152mm) SHEETS



3M

DESCRIPTION	MICRON	GRIT	PSI #
3" x 6" (76mm x 152mm), Plain Back	125	120	PSI-33125-3x6-DMFF
	74	200	PSI-3374-3x6-DMFF
	45	280	PSI-3345-3x6-DMFF
	30	400	PSI-3330-3x6-DMFF
	20	500	PSI-3320-3x6-DMFF
	9	1200	PSI-3309-3x6-DMFF
3" x 6" (76mm x 152mm), PSA Back	125	120	PSI-32125-3x6-DMFF
	74	200	PSI-3274-3x6-DMFF
	45	280	PSI-3245-3x6-DMFF
	30	400	PSI-3230-3x6-DMFF
	20	500	PSI-3220-3x6-DMFF
	9	1200	PSI-3209-3x6-DMFF

P  
S  
A

PSA = Pressure Sensitive Adhesive

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## 3M DIAMOND MICROFINISHING FILM 8.5" x 11" (216mm x 279mm) SHEETS



3M

DESCRIPTION	MICRON	GRIT	PSI #
8.5" x 11" (216mm x 279mm), Plain Back	125	120	PSI-33125-11-DMFF
	74	200	PSI-3374-11-DMFF
	45	280	PSI-3345-11-DMFF
	30	400	PSI-3330-11-DMFF
	20	500	PSI-3320-11-DMFF
	9	1200	PSI-3309-11-DMFF
8.5" x 11" (216mm x 279mm), PSA Back	125	120	PSI-32125-11-DMFF
	74	200	PSI-3274-11-DMFF
	45	280	PSI-3245-11-DMFF
	30	400	PSI-3230-11-DMFF
	20	500	PSI-3220-11-DMFF
	9	1200	PSI-3209-11-DMFF

P  
S  
A

PSA= Pressure Sensitive Adhesive

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information

## 3M DIAMOND MICROFINISHING FILM SMALL BELTS

DESCRIPTION	MICRON	GRIT	PSI #
<b>3M</b> ½" x 18" (13mm x 457mm), Resin Bond	125	120	DMFFB-1/2x18-125
	74	200	DMFFB-1/2x18-74
	45	280	DMFFB-1/2x18-45
	30	400	DMFFB-1/2x18-30
	20	500	DMFFB-1/2x18-20
	9	1200	DMFFB-1/2x18-9
<b>3M</b> ½" x 24" (13mm x 609mm), Resin Bond	125	120	DMFFB-1/2x24-125
	74	200	DMFFB-1/2x24-74
	45	280	DMFFB-1/2x24-45
	30	400	DMFFB-1/2x24-30
	20	500	DMFFB-1/2x24-20
	9	1200	DMFFB-1/2x24-9
<b>3M</b> ¾" x 18" (19mm x 457mm), Resin Bond	125	120	DMFFB-3/4x18-125
	74	200	DMFFB-3/4x18-74
	45	280	DMFFB-3/4x18-45
	30	400	DMFFB-3/4x18-30
	20	500	DMFFB-3/4x18-20
	9	1200	DMFFB-3/4x18-9















DESCRIPTION	MICRON	GRIT	PSI #
<b>3M</b> 1" x 30" (25mm x 762mm), Resin Bond	125	120	DMFFB-1x30-125
	74	200	DMFFB-1x30-74
	45	280	DMFFB-1x30-45
	30	400	DMFFB-1x30-30
	20	500	DMFFB-1x30-20
	9	1200	DMFFB-1x30-9
<b>3M</b> 1 1/8" x 21" (31mm x 534mm), Resin Bond	125	120	DMFFB-1.12x21-125
	74	200	DMFFB-1.12x21-74
	45	280	DMFFB-1.12x21-45
	30	400	DMFFB-1.12x21-30
	20	500	DMFFB-1.12x21-20
	9	1200	DMFFB-1.12x21-9



Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## 3M DIAMOND MICROFINISHING FILM LARGE BELTS

DESCRIPTION		MICRON	GRIT	PSI #
		125	120	DMFFB-1x64-125
		74	200	DMFFB-1x64-74
		45	280	DMFFB-1x64-45
		30	400	DMFFB-1x64-30
		20	500	DMFFB-1x64-20
		9	1200	DMFFB-1x64-9
		125	120	DMFFB-1.75x48-125
		74	200	DMFFB-1.75x48-74
		45	280	DMFFB-1.75x48-45
		30	400	DMFFB-1.75x48-30
		20	500	DMFFB-1.75x48-20
		9	1200	DMFFB-1.75x48-9
		125	120	DMFFB-2x36-125
		74	200	DMFFB-2x36-74
		45	280	DMFFB-2x36-45
		30	400	DMFFB-2x36-30
		20	500	DMFFB-2x36-20
		9	1200	DMFFB-2x36-9
		125	120	DMFFB-2x48-125
		74	200	DMFFB-2x48-74
		45	280	DMFFB-2x48-45
		30	400	DMFFB-2x48-30
		20	500	DMFFB-2x48-20
		9	1200	DMFFB-2x48-9

DESCRIPTION		MICRON	GRIT	PSI #
		125	120	DMFFB-2x72-125
		74	200	DMFFB-2x72-74
		45	280	DMFFB-2x72-45
		30	400	DMFFB-2x72-30
		20	500	DMFFB-2x72-20
		9	1200	DMFFB-2x72-9
		125	120	DMFFB-2x96-125
		74	200	DMFFB-2x96-74
		45	280	DMFFB-2x96-45
		30	400	DMFFB-2x96-30
		20	500	DMFFB-2x96-20
		9	1200	DMFFB-2x96-9

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information



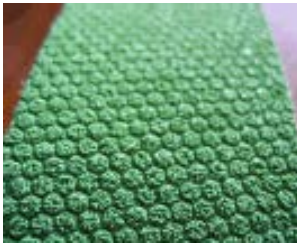
## 3M DIAMOND MICROFINISHING FILM SUPERFINISHING ROLLS

DESCRIPTION	MICRON	GRIT	PSI #
2" x 50' (51mm x 15.2m)  <b>3M</b>	125	120	PSI-46125-2-DMFF
	74	200	PSI-4674-2-DMFF
	45	280	PSI-4645-2-DMFF
	30	400	PSI-4630-2-DMFF
	20	500	PSI-4620-2-DMFF
	9	1200	PSI-4609-2-DMFF
3" x 50' (76mm x 15.2m)  <b>3M</b>	125	120	PSI-46125-3-DMFF
	74	200	PSI-4674-3-DMFF
	45	280	PSI-4645-3-DMFF
	30	400	PSI-4630-3-DMFF
	20	500	PSI-4620-3-DMFF
	9	1200	PSI-4609-3-DMFF
4" x 50' (102mm x 15.2m)  <b>3M</b>	125	120	PSI-46125-4-DMFF
	74	200	PSI-4674-4-DMFF
	45	280	PSI-4645-4-DMFF
	30	400	PSI-4630-4-DMFF
	20	500	PSI-4620-4-DMFF
	9	1200	PSI-4609-4-DMFF
8" x 50' (203mm x 15.2m)  <b>3M</b>	125	120	PSI-46125-8-DMFF
	74	200	PSI-4674-8-DMFF
	45	280	PSI-4645-8-DMFF
	30	400	PSI-4630-8-DMFF
	20	500	PSI-4620-8-DMFF
	9	1200	PSI-4609-8-DMFF
12" x 50' (305mm x 15.2m)  <b>3M</b>	125	120	PSI-46125-DMFF
	74	200	PSI-4674-12-DMFF
	45	280	PSI-4645-12-DMFF
	30	400	PSI-4630-12-DMFF
	20	500	PSI-4620-12-DMFF
	9	1200	PSI-4609-12-DMFF



Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## TRIZACT DIAMOND CLOTH BELTS



Trizact Diamond Cloth Belts, manufactured by the 3M Company, represents the “next generation” in abrasive technology. They combine the ability to predictably produce accurate part geometry

traditionally associated with bonded wheels with ease of use, speed and finish consistency of 3M abrasive belts. Plus, they typically require no dressing, resulting in less downtime and increased productivity.

Featuring 3M’s exclusive microreplicated abrasive technology, Trizact Diamond Cloth Belts are constructed with diamond-filled, three dimensional structures, which are bonded to a durable, waterproof cloth backing. As the Trizact structure wears, fresh abrasive is continually exposed to the workpiece, resulting in a more consistent, predictable cut throughout the life of the belt. In addition to making the grinding process less dependent on operator skill, it also allows the process to be automated more easily, further reducing labor costs and improving productivity.

DIAMOND TRIZACT AVAILABLE GRADES	
Micron	Grit
70	200
40	320
20	600

Trizact Diamond Cloth Belts are designed for use on hard-to-grind materials, including: Thermal Spray Coatings, Ceramics, Carbides, Chilled Iron, and much more. The most common uses for the Trizact Diamond Cloth Belt are:

- Stripping old thermal spray coatings
- Coarse grinding
- Medium grinding
- Fine grinding
- Initial polishing

By continually exposing fresh abrasive material to the workpiece, the Trizact Diamond Cloth belts effectively “dress themselves,” resulting in consistent and efficient stock removal - without chatter - at low grinding forces throughout the life of the belt.

Lower grinding force is also a critical consideration in the production of lightweight/thin-walled components, such as aircraft parts, where high grinding forces can cause deflection during grinding - resulting in parts that are out-of-spec.

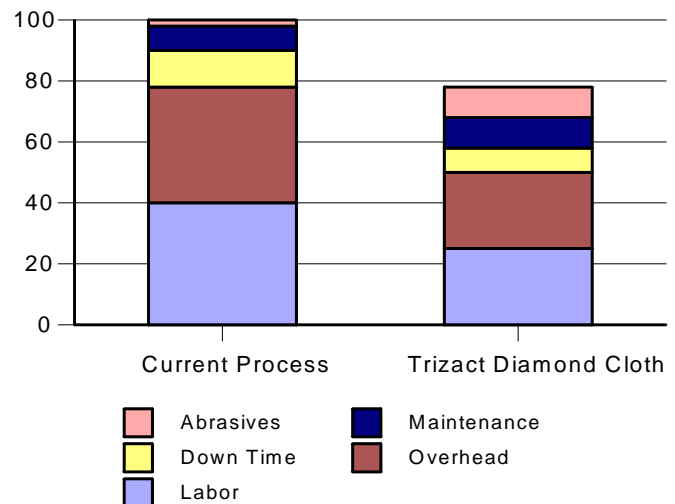
By significantly reducing processing time and eliminating downtime for dressing, switching to Trizact Diamond Cloth Belts can result in significant savings - in most cases, at least 20% per part.

Trizact Diamond Cloth Belts combine the speed, consistency, and ease of use of belts with the predictable dimensioning traditionally associated with bonded wheels.

3M has partnered with a company which can not only prove the process of the grinding wheel to belt conversion, they can also perform the conversion on your grinding wheel machine. To discuss how the Trizact Diamond Cloth belts can work for you or for information about grinding wheel-to-belt conversions, please contact the PSI Office.



Cost per Part



### 3M TRIZACT DIAMOND CLOTH SMALL BELTS

DESCRIPTION	MICRON	GRIT	PSI #
½" x 18" (13mm x 457mm), Resin Bond	70	200	BDT-1/2x18-70
	40	320	BDT-1/2x18-40
	20	600	BDT-1/2x18-20
½" x 24" (13mm x 609mm), Resin Bond	70	200	BDT-1/2x24-70
	40	320	BDT-1/2x24-40
	20	600	BDT-1/2x24-20
¾" x 18" (19mm x 457mm), Resin Bond	70	200	BDT-3/4x18-70
	40	320	BDT-3/4x18-40
	20	600	BDT-3/4x18-20

**3M**



Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

### 3M TRIZACT DIAMOND CLOTH LARGE BELTS

DESCRIPTION	MICRON	GRIT	PSI #
1" x 30" (25mm x 762mm), Resin Bond	70	200	BDT-1x30-70
	40	320	BDT-1x30-40
	20	600	BDT-1x30-20
1" x 64" (25mm x 1.63m), Resin Bond	70	200	BDT-1x64-70
	40	320	BDT-1x64-40
	20	600	BDT-1x64-20
1 1/8" x 21" (31mm x 534mm), Resin Bond	70	200	BDT-1.12x21-70
	40	320	BDT-1.12x21-40
	20	600	BDT-1.12x21-20
1 3/4" x 48" (44mm x 1.22m), Resin Bond	70	200	BDT-1.75x48-70
	40	320	BDT-1.75x48-40
	20	600	BDT-1.75x48-20
2" x 36" (51mm x 914mm), Resin Bond	70	200	BDT-2x36-70
	40	320	BDT-2x36-40
	20	600	BDT-2x36-20
2" x 48" (51mm x 1.22m), Resin Bond	70	200	BDT-2x48-70
	40	320	BDT-2x48-40
	20	600	BDT-2x48-20
2" x 72" (51mm x 2.29m), Resin Bond	70	200	BDT-2x72-70
	40	320	BDT-2x72-40
	20	600	BDT-2x72-20
2" x 96" (51mm x 3.35m), Resin Bond	70	200	BDT-2x96-70
	40	320	BDT-2x96-40
	20	600	BDT-2x96-20

**3M**



**3M**



Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## DIAMOND CLOTH DRY

PSI Diamond Cloth Dry, manufactured by the 3M Company, is a new resin bond alternative to the traditional metal bond flexible diamond product. Diamond Cloth Dry helps optimize cost-effectiveness in your finishing operations. These diamond products are used for finishing and dimensioning ceramics, carbides and hardcoated materials.



These products consist of micron-graded diamond particles encapsulated in a bonding matrix which is then bonded to a durable resin backing. Diamond Cloth Dry is available in belt and disc form.

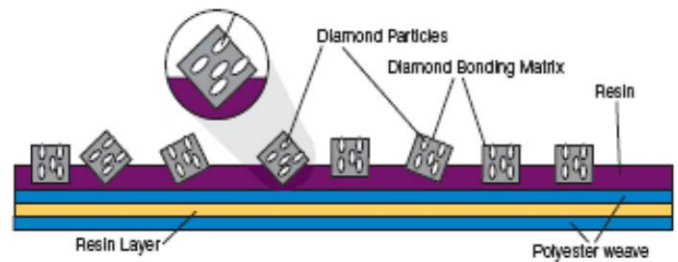
Diamond Cloth Dry is designed to provide long-lasting cutting performance in a wide range of hardcoat finishing applications. The unique construction allows Diamond Cloth Dry to deliver outstanding consistency throughout the life of the belt, for improved control and fewer rejects. It provides optimal performance when run wet, but can also be run dry.

Compared to flexible metal bond diamond abrasives, Diamond Cloth Dry lasts longer, and delivers a faster, more consistent cut. It also provides a finer finish, with less chance of burn-through - helping you improve productivity.

The water resistant backing performs well in both wet and dry applications. And the products' overall toughness makes them ideal for many hard-to finish materials such as Ceramics, Tungsten Carbide, Ceramic Coatings, Chrome Carbide, Composites, Zirconia and much more.

Diamond Cloth Dry products have the aggressiveness of metal bond flexible diamond products, but offer the convenience of using in dry applications without the loss of product life.

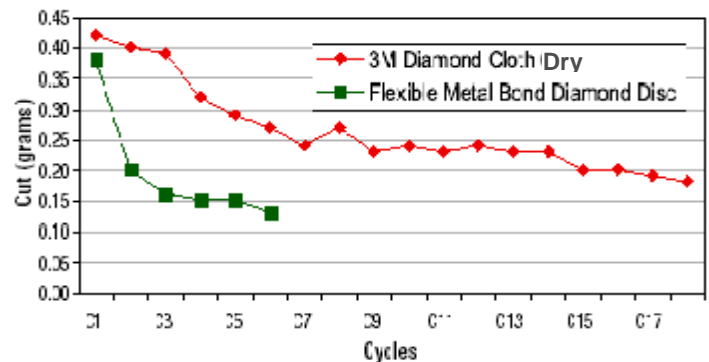
Diamond Cloth Dry Belts are available in most standard sizes and custom sizes are available. Diamond Cloth Dry Discs are available in 1.5", 2", and 3" discs.



If you have any questions regarding these products, or any consumable product from PSI, contact us and we will be pleased to discuss our Diamond Cloth Dry products with you.

In this series of production scale lab tests, 3M maintained cutting life over three times longer than the traditional diamond product!

### Stock Removal Comparison



Available Diamond Cloth 674W Grades	
Micron	Mesh
120 $\mu$	120
220 $\mu$	70

### 3M DIAMOND CLOTH DRY SMALL BELTS



DESCRIPTION	MICRON	MESH	PSI #
½" x 18" (13mm x 457mm),	120	120	<b>DCDB-1/2x18-120</b>
Resin Bond	70	220	<b>DCDB-1/2x18-220</b>
½" x 24" (13mm x 609mm),	120	120	<b>DCDB-1/2x24-120</b>
Resin Bond	70	220	<b>DCDB-1/2x24-220</b>
¾" x 18" (19mm x 457mm),	120	120	<b>DCDB-3/4x18-120</b>
Resin Bond	70	220	<b>DCDB-3/4x18-220</b>

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

### 3M DIAMOND CLOTH DRY LARGE BELTS



DESCRIPTION	MICRON	MESH	PSI #
1" x 30" (25mm x 762mm),	120	120	<b>DCDB-1x30-120</b>
Resin Bond	70	220	<b>DCDB-1x30-220</b>
1" x 64" (25mm x 1.63m),	120	120	<b>DCDB-1x64-120</b>
Resin Bond	70	220	<b>DCDB-1x64-220</b>
1 1/8" x 21" (29mm x 533mm),	120	120	<b>DCDB-1.12x21-120</b>
Resin Bond	70	220	<b>DCDB-1.12x21-220</b>
1 3/4" x 48" (44mm x 1.22m),	120	120	<b>DCDB-1.75x48-120</b>
Resin Bond	70	220	<b>DCDB-1.75x48-220</b>
2" x 36" (51mm x 915mm),	120	120	<b>DCDB-2x36-120</b>
Resin Bond	70	220	<b>DCDB-2x36-220</b>
2" x 48" (51mm x 1.22m),	120	120	<b>DCDB-2x48-120</b>
Resin Bond	70	220	<b>DCDB-2x48-220</b>
2" x 72" (51mm x 1.83m),	120	120	<b>DCDB-2x72-120</b>
Resin Bond	70	220	<b>DCDB-2x72-220</b>
2" x 96" (51mm x 2.44m),	120	120	<b>DCDB-2x96-120</b>
Resin Bond	70	220	<b>DCDB-2x96-220</b>

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

### 3M DIAMOND CLOTH DRY ROLOC DISCS



DESCRIPTION	MICRON	MESH	PSI #
1" (25mm) Roloc,	120	120	DCDD-1-BLK-120
Resin Bond	70	220	DCDD-1-RED-220
1½" (38mm) Roloc,	120	120	DCDD-1.5-BLK-120
Resin Bond	70	220	DCDD-1.5-RED-220
2" (51mm) Roloc,	120	120	DCDD-2-BLK-120
Resin Bond	70	220	DCDD-2-RED-220
3" (76mm) Roloc,	120	120	DCDD-3-BLK-120
Resin Bond	70	220	DCDD-3-RED-220
4" (102mm) Roloc,	120	120	DCDD-4-BLK-120
Resin Bond	70	220	DCDD-4-RED-220



DESCRIPTION	SIZE	PSI #
Roloc Disc Pad,	1" (25mm)	DR-1-MED-1/4S
1/4" Shaft Included	1½" (38mm)	DR-1.5-MED-1/4S
	2" (51mm)	DR-2-MED-1/4S
	3" (76mm)	DR-3-MED-1/4S
	4" (102mm)	DR-4-MED-1/4S
Roloc Disc Pad Shaft, ¼" OD, 20 threads/inch		DR-SHAFT-1/4-20
Adapter, 5/8"-11 Internal to 1/4"-20 External Thread		DR5/8-11:1/4-20
Adapter, 5/8"-11 External to 1/4" Shaft		DR1/4S:5/8-11



### 3M DIAMOND CLOTH (TRADITIONAL)

PSI Diamond Cloth, manufactured by the 3M Company, consists of micron-graded diamond particles resin bonded to a durable, water-resistant, cloth backing. PSI Diamond Cloth looks like a traditional cloth-backed abrasive, but with diamond particles as the abrasive. This product is used for where material removal is not the principle concern, as it performs a polishing action rather than aggressive cutting.



PSI Diamond Cloth Products are redesigned with a higher diamond concentration and a longer-lasting resin system. Diamond Cloth and Diamond Polishing Cloth help optimize cost-effectiveness in your finishing operations.

Diamond Cloth is available in a wide range of grades and sizes. A choice of belts, discs, rolls, and sheets let you work with a wide variety of tools.

Compared to bonded wheels and conventional abrasives, Diamond Cloth can provide a superior finish with fewer steps which reduces process time and extends product life.

The water-resistant backing performs well in both wet and dry applications. And the products' overall toughness makes them ideal for many hard-to-finish materials such as stones, coatings, ceramics, decorative glass, composites, rubber and so more.

Diamond Cloth Belts have the aggressiveness of diamond on soft cloth backings. Diamond Cloth belts are available in 1/4" to 12" wide and 9-7/16" to 183" in length.

Diamond Abrasive Cloth	
Micron	Mesh
165 $\mu$	100
70 $\mu$	220
45 $\mu$	400
30 $\mu$	600
15 $\mu$	1200
9 $\mu$	1800
6 $\mu$	3000
3 $\mu$	8000
0.5 $\mu$	50,000

Diamond Cloth Discs have a variety of sizes and backings to suit your needs. Diamond Cloth Discs are available in 1/2" to 12" diameter with a Plain, QRS (Hook & Loop) or PSA (Pressure Sensitive Adhesive) backing.

Diamond Cloth Rolls have the same durable, high strength, flexible backing but designed for roll machines. Diamond Cloth Rolls are available in 1/4" to 12" widths.

Diamond Cloth Sheets are available in a number of sizes. Backing configurations include Plain, QRS (Hook & Loop) or PSA (Pressure Sensitive Adhesive).

Feel free to contact us to discuss our Diamond Cloth Products in relation to your application.



**3M DIAMOND CLOTH (TRADITIONAL)  
SHEETS  
3" x 6" (76mm x 152mm)**



**3M**

DESCRIPTION	MICRON	MESH	PSI #
3" x 6" (76mm x 152mm), Plain Back	165	100	651W-3x6-100
	70	220	651W-3x6-220
	45	400	651W-3x6-45
	30	600	651W-3x6-30
	15	1,200	651W-3x6-15
	9	1,800	651W-3x6-9
	6	3,000	652W-3x6-6
	3	8,000	652W-3x6-3
	.5	50,000	652W-3x6-.5
3" x 6" (76mm x 152mm), PSA Back	165	100	658W-3x6-100
	70	220	658W-3x6-220
	45	400	658W-3x6-45
	30	600	658W-3x6-30
	15	1,200	658W-3x6-15
	9	1,800	658W-3x6-9
	6	3,000	656W-3x6-6
	3	8,000	656W-3x6-3
	.5	50,000	656W-3x6-.5

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

**SHEETS  
9" x 11" (229mm x 279mm)**



**3M**

DESCRIPTION	MICRON	MESH	PSI #
9" x 11" (229mm x 279mm), Plain Back	165	100	651W-9x11-100
	70	220	651W-9x11-220
	45	400	651W-9x11-45
	30	600	651W-9x11-30
	15	1,200	651W-9x11-15
	9	1,800	651W-9x11-9
	6	3,000	652W-9x11-6
	3	8,000	652W-9x11-3
	.5	50,000	652W-9x11-.5

Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

**3M DIAMOND CLOTH (TRADITIONAL)  
BELTS  
1" x 54" (25mm x 1.37m)**

DESCRIPTION	MICRON	MESH	PSI #
1" x 54" (25mm x 1.37m)	165	100	<b>651W-1x54-100</b>
	70	220	<b>651W-1x54-220</b>
	45	400	<b>651W-1x54-45</b>
	30	600	<b>651W-1x54-30</b>
	15	1,200	<b>651W-1x54-15</b>
	9	1,800	<b>651W-1x54-9</b>
	6	3,000	<b>652W-1x54-6</b>
	3	8,000	<b>652W-1x54-3</b>
	.5	50,000	<b>652W-1x54-.5</b>
1" x 60" (25mm x 1.52m)	165	100	<b>651W-1x60-100</b>
	70	220	<b>651W-1x60-220</b>
	45	400	<b>651W-1x60-45</b>
	30	600	<b>651W-1x60-30</b>
	15	1,200	<b>651W-1x60-15</b>
	9	1,800	<b>651W-1x60-9</b>
	6	3,000	<b>652W-1x60-6</b>
	3	8,000	<b>652W-1x60-3</b>
	.5	50,000	<b>652W-1x60-.5</b>

**3M**



**3M**



Many other sizes available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

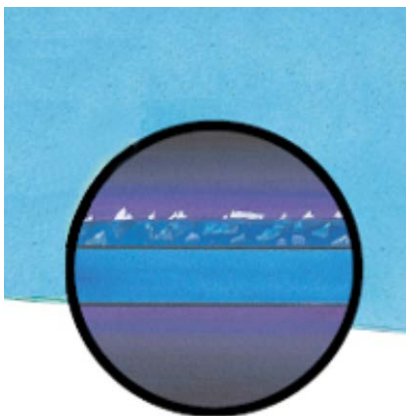
## 3M DIAMOND LAPPING FILM

PSI Diamond Lapping Film, manufactured by the 3M Company, is the most innovative product available for metallography and lapping applications in many years. Originally developed for audio/video reading head polishing, it is now available in configurations to fit popular polishing equipment. Its ability to polish the most difficult hard and mixed hardness materials quickly, without pull-out and with incredible flatness, makes Diamond Lapping Film a product worth investigating for difficult material applications.



PSI Diamond Lapping Film is available in 3 specifications and 9 micron grades. All share the precision 3-mil polyester backing, color coded for easy grade identification. The three types differ in the method used to secure the diamonds particles to the polyester film backing.

PSI Diamond Lapping Film Type A is a single layer of the specified grade diamond particles resin bonded to the film backing. Type A is excellent for polishing applications where very little material removal is required. It will have a shorter life than the other two types, but gives a better finish grade for grade. Current applications include TEM sample preparation, printed circuit board failure analysis and aerospace composite materials.

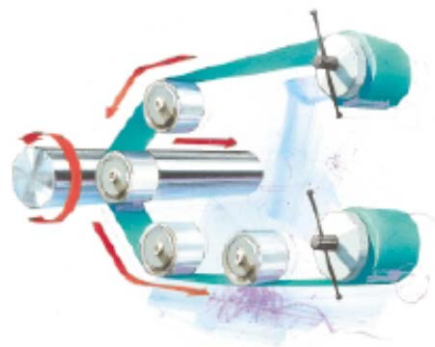


PSI Diamond Film Type B consists of diamond particles encapsulated in small soft ceramic beads, which are then resin coated to the polyester film backing. This results in a longer lasting, more aggressive product than the Type A product. As the ceramic beads wear, fresh diamond particles are exposed to work on the specimen surface. Successful applications include tungsten carbide specimen preparation, dental materials research, nickel base super alloys, high speed tool steel and others.

AVAILABLE DIAMOND FILM GRADES			
Color	Type A	Type B	Type P
Amber			60 $\mu$
Amber			45 $\mu$
Green	30 $\mu$		
Orange	15 $\mu$		
Blue	9 $\mu$	9 $\mu$	
Brown	6 $\mu$	6 $\mu$	
Pink	3 $\mu$	3 $\mu$	
Lavender	1 $\mu$	1 $\mu$	
Off White	.5 $\mu$	.5 $\mu$	
Gray Green	.1 $\mu$		

PSI Diamond Lapping Film Type P shares characteristics with both Type A and Type B. Type P consists of diamond particles directly bonded to the polyester film with a very hard resin. This results in a product which works aggressively due to the large particle size, but because of the harder resin, exhibits a long life. Diamond Lapping Film Type P is used for fine grinding and flattening prior to use of the other products, if required.

The learning curve of Diamond Lapping Film is somewhat steep, but the rewards are dramatic. Difficult materials can be processed in minutes. Particle pull out is eliminated because the diamond cuts everything equally.



**3M DIAMOND LAPPING FILM  
PLAIN BACK SHEETS  
3" x 6" (76mm x 152mm)**

DESCRIPTION	MICRON	COLOR	PSI #
3" x 6" (76mm x 152mm), <b>Plain Back, Type P,</b> <b>Type A,</b> Direct Coating, Standard Concentration	60	Amber	PSI-1660D-6P
	45	Amber	PSI-1645D-6P
	30	Green	PSI-1630D-6A
	15	Orange	PSI-1615D-6A
	9	Blue	PSI-1609D-6A
	6	Brown	PSI-1606D-6A
	3	Pink	PSI-1603D-6A
	1	Lavender	PSI-1601D-6A
	.5	Off White	PSI-16.5D-6A
	.1	Gray Green	PSI-16.1D-6A
3" x 6" (76mm x 152mm), <b>Plain Back, Type B,</b> Beaded Coating, Standard Concentration	9	Blue	PSI-1609D-6
	6	Brown	PSI-1606D-6
	3	Pink	PSI-1603D-6
	1	Lavender	PSI-1601D-6
	.5	Off White	PSI-16.5D-6

**3M**



Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

**3M DIAMOND LAPPING FILM  
PRESSURE SENSITIVE ADHESIVE SHEETS  
3" x 6" (76mm x 152mm)**

DESCRIPTION	MICRON	COLOR	PSI #
3" x 6" (76mm x 152mm), <b>PSA Back, Type P,</b> <b>Type A,</b> Direct Coating, Standard Concentration	60	Amber	PSI-1560D-6P
	45	Amber	PSI-1545D-6P
	30	Green	PSI-1530D-6A
	15	Orange	PSI-1515D-6A
	9	Blue	PSI-1509D-6A
	6	Brown	PSI-1506D-6A
	3	Pink	PSI-1503D-6A
	1	Lavender	PSI-1501D-6A
	.5	Off White	PSI-15.5D-6A
	.1	Gray Green	PSI-15.1D-6A
3" x 6" (76mm x 152mm), <b>PSA Back, Type B,</b> Beaded Coating, Standard Concentration	9	Blue	PSI-1509D-6
	6	Brown	PSI-1506D-6
	3	Pink	PSI-1503D-6
	1	Lavender	PSI-1501D-6
	.5	Off White	PSI-15.5D-6

**3M**



Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

### 3M DIAMOND LAPPING FILM PLAIN BACK SHEETS 9" x 11" (228mm x 279mm)



**3M**

DESCRIPTION	MICRON	COLOR	PSI #
9" x 11" (228mm x 279mm), <b>Plain Back, Type P,</b> <b>Type A,</b> Direct Coating, Standard Concentration	60	Amber	PSI-1660D-11P
	45	Amber	PSI-1645D-11P
	30	Green	PSI-1630D-11A
	15	Orange	PSI-1615D-11A
	9	Blue	PSI-1609D-11A
	6	Brown	PSI-1606D-11A
	3	Pink	PSI-1603D-11A
	1	Lavender	PSI-1601D-11A
	.5	Off White	PSI-16.5D-11A
	.1	Gray Green	PSI-16.1D-11A
9" x 11" (228mm x 279mm), <b>Plain Back, Type B,</b> Beaded Coating, Standard Concentration	9	Blue	PSI-1609D-11
	6	Brown	PSI-1606D-11
	3	Pink	PSI-1603D-11
	1	Lavender	PSI-1601D-11
	.5	Off White	PSI-16.5D-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

### 3M DIAMOND LAPPING FILM PRESSURE SENSITIVE ADHESIVE SHEETS 9" x 11" (228mm x 279mm)



**3M**

DESCRIPTION	MICRON	COLOR	PSI #
9" x 11" (228mm x 279mm), <b>PSA Back, Type P,</b> <b>Type A,</b> Direct Coating, Standard Concentration	60	Amber	PSI-1560D-11P
	45	Amber	PSI-1545D-11P
	30	Green	PSI-1530D-11A
	15	Orange	PSI-1515D-11A
	9	Blue	PSI-1509D-11A
	6	Brown	PSI-1506D-11A
	3	Pink	PSI-1503D-11A
	1	Lavender	PSI-1501D-11A
	.5	Off White	PSI-15.5D-11A
	.1	Gray Green	PSI-15.1D-11A
9" x 11" (228mm x 279mm), <b>PSA Back, Type B,</b> Beaded Coating, Standard Concentration	9	Blue	PSI-1509D-11
	6	Brown	PSI-1506D-11
	3	Pink	PSI-1503D-11
	1	Lavender	PSI-1501D-11
	.5	Off White	PSI-15.5D-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## 3M DIAMOND LAPPING FILM SUPERFINISHING ROLLS

DESCRIPTION	MICRON	COLOR	PSI #
2" x 50' (51mm x 15.2m)	60	Amber	PSI-1260D-2
	45	Amber	PSI-1245D-2
	30	Green	PSI-1230D-2
	15	Orange	PSI-1215D-2
	9	Blue	PSI-1209D-2
	6	Brown	PSI-1206D-2
	3	Pink	PSI-1203D-2
	1	Lavender	PSI-1201D-2
	.5	Off White	PSI-12.5D-2
	.1	Gray Green	PSI-12.1D-2
3" x 50' (76mm x 15.2m)	60	Amber	PSI-1260D-3
	45	Amber	PSI-1245D-3
	30	Green	PSI-1230D-3
	15	Orange	PSI-1215D-3
	9	Blue	PSI-1209D-3
	6	Brown	PSI-1206D-3
	3	Pink	PSI-1203D-3
	1	Lavender	PSI-1201D-3
	.5	Off White	PSI-12.5D-3
	.1	Gray Green	PSI-12.1D-3
4" x 50' (102mm x 15.2m)	60	Amber	PSI-1260D-4
	45	Amber	PSI-1245D-4
	30	Green	PSI-1230D-4
	15	Orange	PSI-1215D-4
	9	Blue	PSI-1209D-4
	6	Brown	PSI-1206D-4
	3	Pink	PSI-1203D-4
	1	Lavender	PSI-1201D-4
	.5	Off White	PSI-12.5D-4
	.1	Gray Green	PSI-12.1D-4
8" x 50' (203mm x 15.2m)	60	Amber	PSI-1260D-8
	45	Amber	PSI-1245D-8
	30	Green	PSI-1230D-8
	15	Orange	PSI-1215D-8
	9	Blue	PSI-1209D-8
	6	Brown	PSI-1206D-8
	3	Pink	PSI-1203D-8
	1	Lavender	PSI-1201D-8
	.5	Off White	PSI-12.5D-8
	.1	Gray Green	PSI-12.1D-8

**3M**



**3M**

**3M**



**3M**



## 3M DIAMOND LAPPING FILM SUPERFINISHING ROLLS (continued)

DESCRIPTION	MICRON	COLOR	PSI #
12" x 50' (305mm x 15.2m)	60	Amber	PSI-1260D-12
	45	Amber	PSI-1245D-12
	30	Green	PSI-1230D-12
	15	Orange	PSI-1215D-12
	9	Blue	PSI-1209D-12
	6	Brown	PSI-1206D-12
	3	Pink	PSI-1203D-12
	1	Lavender	PSI-1201D-12
	.5	Off White	PSI-12.5D-12
	.1	Gray Green	PSI-12.1D-12

**3M**

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.



## LAPPING FILM

PSI Lapping Film, manufactured by the 3M Company, is available from PSI in 2 minerals, 11 micron grades and 2 backings. The precision 3 mil thick polyester substrate is color coded for easy grade identification. PSI packages all Lapping Film in re-sealable bags to help prevent product contamination. Lapping Film is available in a wide variety of sheets, discs, and rolls, designed to fit popular polishing equipment or for polishing by hand applications.



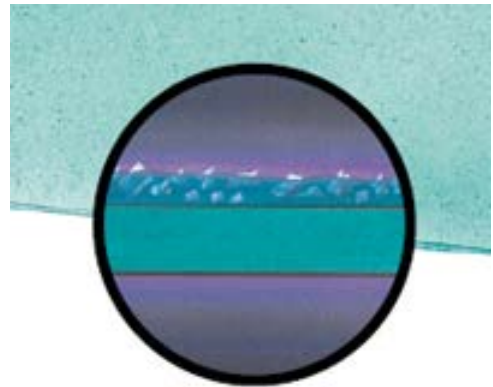
Silicon Carbide Lapping Film is the most aggressive non-diamond product. SiC Lapping Film will remove material rapidly, leaving a consistent scratch pattern easily removed with successive polishing steps. Because of the relatively deep scratches made by SiC Lapping Film, it is not used as a step following Aluminum Oxide Lapping Film. Grades available in SiC Lapping Film include 3, 5, 9, 15 and 30 micron.

Aluminum Oxide Lapping Film is less aggressive than SiC Lapping Film, but is available in more and finer grades.  $\text{Al}_2\text{O}_3$  Lapping Film is available in .05, .3, 1, 3, 5, 9, 12, 30, and 60 micron.

All PSI Lapping Film is available with either a Plain Back (PB) or with a Pressure Sensitive Adhesive (PSA) back. Which backing to use is determined by the polishing equipment available, or, in the case of polishing by hand, by user preference.

When polishing by hand, generally a glass plate is used as the substrate. A few drops of water (distilled and/or filtered) is used to "adhere" the film to the glass. Additional water is used on the Lapping Film surface as a lubricant. The part is moved over the surface in a "figure 8" or other patterns. Only relatively light pressure is required. The part should be rinsed thoroughly between Lapping Film grades.

When mechanical polishing is used, follow the manufacturer's instructions, with the following tips in mind. Be sure the polishing plate is clean before application of the Lapping Film discs. Any surface contamination will force the film out of plane, causing scratches. If the adhesive will not release easily after use, try a hot air gun (or hair dryer) to heat the film and plate. This will usually allow the film to release easily.



AVAILABLE LAPPING FILM GRADES		
Grade	SiC	$\text{Al}_2\text{O}_3$
60 $\mu$		White
40 $\mu$		Dark Blue
30 $\mu$	Dark Green	Green
15 $\mu$	Gray	
12 $\mu$		Yellow
9 $\mu$	Gray	Blue
5 $\mu$	Gray	Brown
3 $\mu$	Gray	Pink
1 $\mu$		Light Green
.3 $\mu$		White
.05 $\mu$		Pale Yellow

PSI maintains a large and varied inventory of Lapping Film. If you do not see the size, shape or mineral you require, please call us.

**3M LAPPING FILM  
PLAIN BACK SHEETS  
8½" x 11" (216mm x 279mm)**

DESCRIPTION	MICRON	COLOR	PSI #
8.5" x 11" (216mm x 279mm), Aluminum Oxide, Plain Back	60	White	PSI-1660-11
	40	Dark Blue	PSI-1640-11
	30	Green	PSI-1630-11
	12	Yellow	PSI-1612-11
	9	Blue	PSI-1609-11
	5	Brown	PSI-1605-11
	3	Pink	PSI-1603-11
	1	Light Green	PSI-1601-11
	.3	White	PSI-16.3-11
	.05	Pale Yellow	PSI-16.05-11
8.5" x 11" (216mm x 279mm), Silicon Carbide, Plain Back	30	Dark Green	PSI-1630S-11
	15	Gray	PSI-1615S-11
	9	Gray	PSI-1609S-11
	5	Gray	PSI-1605S-11
	3	Gray	PSI-1603S-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.



**PRESSURE SENSITIVE ADHESIVE SHEETS  
8½" x 11" (216mm x 279mm)**

DESCRIPTION	MICRON	COLOR	PSI #
8.5" x 11" (216mm x 279mm), Aluminum Oxide, PSA Back	40	Dark Blue	PSI-1540-11
	30	Green	PSI-1530-11
	12	Yellow	PSI-1512-11
	9	Blue	PSI-1509-11
	3	Pink	PSI-1503-11
	1	Light Green	PSI-1501-11
	.3	White	PSI-15.3-11
	.05	Pale Yellow	PSI-15.05-11
	30	Dark Green	PSI-1530S-11
	15	Gray	PSI-1515S-11
8.5" x 11" (216mm x 279mm), Silicon Carbide, PSA Back	9	Gray	PSI-1509S-11
	5	Gray	PSI-1505S-11
	3	Gray	PSI-1503S-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## 3M LAPPING FILM SUPERFINISHING ROLLS

DESCRIPTION	MICRON	COLOR	PSI #
<div>3" x 150' (76mm x 45.7m), Aluminum Oxide</div> <div>3M</div>	60	White	PSI-1260-3
	40	Dark Blue	PSI-1240-3
	30	Green	PSI-1230-3
	12	Yellow	PSI-1212-3
	9	Blue	PSI-1209-3
	5	Brown	PSI-1205-3
	3	Pink	PSI-1203-3
	1	Light Green	PSI-1201-3
	.3	White	PSI-12.3-3
<div>4" x 150' (102mm x 45.7m), Aluminum Oxide</div> <div>3M</div>	60	White	PSI-1260-4
	40	Dark Blue	PSI-1240-4
	30	Green	PSI-1230-4
	12	Yellow	PSI-1212-4
	9	Blue	PSI-1209-4
	5	Brown	PSI-1205-4
	3	Pink	PSI-1203-4
	1	Light Green	PSI-1201-4
	.3	White	PSI-12.3-4
<div>8" x 150' (203mm x 45.7m), Aluminum Oxide</div> <div>3M</div>	60	White	PSI-1260-8
	40	Dark Blue	PSI-1240-8
	30	Green	PSI-1230-8
	12	Yellow	PSI-1212-8
	9	Blue	PSI-1209-8
	5	Brown	PSI-1205-8
	3	Pink	PSI-1203-8
	1	Light Green	PSI-1201-8
	.3	white	PSI-12.3-8
<div>3" x 150' (76mm x 45.7m), Silicon Carbide</div> <div>3M</div>	30	Dark Green	PSI-1230S-3
	15	Gray	PSI-1215S-3
	9	Gray	PSI-1209S-3
	5	Gray	PSI-1205S-3
	3	Gray	PSI-1203S-3
<div>4" x 150' (102mm x 45.7m), Silicon Carbide</div> <div>3M</div>	30	Dark Green	PSI-1230S-4
	15	Gray	PSI-1215S-4
	9	Gray	PSI-1209S-4
	5	Gray	PSI-1205S-4
	3	Gray	PSI-1203S-4
<div>8" x 150' (203mm x 45.7m), Silicon Carbide</div> <div>3M</div>	30	Dark Green	PSI-1230S-8
	15	Gray	PSI-1215S-8
	9	Gray	PSI-1209S-8
	5	Gray	PSI-1205S-8
	3	Gray	PSI-1203S-8

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

### 3M MICROFINISHING FILM

Microfinishing Film Abrasives (MFA), manufactured by the 3M Company, can replace traditional abrasive papers commonly used. The unique features of this product enable the user to achieve the basic requirements of finish and flatness. With MFA, these goals will be reached with greater speed and more repeatable results.



MFA MICRON AVAILABLE GRADES			
Al <sub>2</sub> O <sub>3</sub> PB	Al <sub>2</sub> O <sub>3</sub> PSA	SiC PB	SiC PSA
180	180		
150	150		
120	120		
100	100	100	100
80	80	80	80
60	60	60	60
40	40	40	40
30	30	30	30
15	15	15	15
9	9		
PB=Plain Back		PSA=Adhesive Back	

Excellent finish is achieved by the precision grading system used to select abrasive particles for each grade. Classified by the more accurate micron grading system, particle size grading is held to much tighter tolerances than conventional abrasive products. This results in a higher density of the specified particle size available to do the grinding required. This controlled uniformity of particle size, combined with electrostatic coating of the polyester film backing, provides an unexcelled grinding product.

GRADE COMPARISON CHART		
Micron	ANSI(U.S.)	FEPA(European)
180	80	80
150	100	100
120	120	120
100	150	150
80	180	180
60	220	220
40	320	360
30	400	600
15	800	1200
9	1200	2000

Product flatness is achieved and maintained through the grinding steps by the consistent 5 mil caliper of the dense, polyester backing. Unlike the traditional paper products, the abrasive particles cannot "recede" into the backing. This feature results in shorter grind times and longer life because the abrasive particles remain at the "cutting" interface. Shorter grind times mean less heat generation in the material being ground. Longer life means improved economics.

MFA products are available in both Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) and Silicon Carbide (SiC). Aluminum Oxide is recommended for use on ferrous materials. Silicon Carbide product should be used on non-ferrous materials. Both abrasive types can be ordered from PSI in discs, rolls and sheets.



If your work can benefit from flatter, more consistent finishes combined with shorter grinding cycles and longer abrasive life, compared to traditional abrasives, you should consider Microfinishing Film Abrasives from PSI.

**3M MICROFINISHING FILM  
PLAIN BACK SHEETS  
8½" x 11" (216mm x 279mm)**

DESCRIPTION	MICRON	PSI #
8.5" x 11" (216mm x 279mm), Aluminum Oxide, <b>Plain Back</b>	180	PSI-33180-11
	150	PSI-33150-11
	120	PSI-33120-11
	100	PSI-33100-11
	80	PSI-3380-11
	60	PSI-3360-11
	40	PSI-3340-11
	30	PSI-3330-11
	15	PSI-3315-11
	9	PSI-3309-11
8.5" x 11" (216mm x 279mm), Silicon Carbide, <b>Plain Back</b>	100	PSI-33100S-11
	80	PSI-3380S-11
	60	PSI-3360S-11
	40	PSI-3340S-11
	30	PSI-3330S-11
	15	PSI-3315S-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.



**3M PRESSURE SENSITIVE ADHESIVE SHEETS  
8½" x 11" (216mm x 279mm)**

DESCRIPTION	MICRON	PSI #
8.5" x 11" (216mm x 279mm), Aluminum Oxide, <b>PSA Back</b>	100	PSI-32100-11
	80	PSI-3280-11
	60	PSI-3260-11
	40	PSI-3240-11
	30	PSI-3230-11
	15	PSI-3215-11
	9	PSI-3209-11
8.5" x 11" (216mm x 279mm), Silicon Carbide, <b>PSA Back</b>	100	PSI-32100S-11
	80	PSI-3280S-11
	60	PSI-3260S-11
	40	PSI-3240S-11
	30	PSI-3230S-11
	15	PSI-3215S-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## 3M MICROFINISHING FILM SUPERFINISHING ROLLS

DESCRIPTION	MICRON	PSI #
<div>2" x 150' (51mm x 45.7m), Aluminum Oxide</div> <div>3M</div>	100	PSI-46100-2
	80	PSI-4680-2
	60	PSI-4660-2
	40	PSI-4640-2
	30	PSI-4630-2
	15	PSI-4615-2
	9	PSI-4609-2
<div>3" x 150' (76mm x 45.7m), Aluminum Oxide</div> <div>3M</div>	100	PSI-46100-3
	80	PSI-4680-3
	60	PSI-4660-3
	40	PSI-4640-3
	30	PSI-4630-3
	15	PSI-4615-3
	9	PSI-4609-3
<div>4" X 150' (102mm x 45.7m), Aluminum Oxide</div> <div>3M</div>	100	PSI-46100-4
	80	PSI-4680-4
	60	PSI-4660-4
	40	PSI-4640-4
	30	PSI-4630-4
	15	PSI-4615-4
	9	PSI-4609-4
<div>8" x 150' (203mm x 45.7m), Aluminum Oxide</div> <div>3M</div>	100	PSI-46100-8
	80	PSI-4680-8
	60	PSI-4660-8
	40	PSI-4640-8
	30	PSI-4630-8
	15	PSI-4615-8
	9	PSI-4609-8
<div>2" x 150' (51mm x 45.7m), Silicon Carbide</div> <div>3M</div>	60	PSI-4660S-2
	40	PSI-4640S-2
	30	PSI-4630S-2
	15	PSI-4615S-2
<div>3" x 150' (76mm x 45.7m), Silicon Carbide</div> <div>3M</div>	60	PSI-4660S-3
	40	PSI-4640S-3
	30	PSI-4630S-3
	15	PSI-4615S-3
<div>4" x 150' (102mm x 45.7m), Silicon Carbide</div> <div>3M</div>	60	PSI-4660S-4
	40	PSI-4640S-4
	30	PSI-4630S-4
	15	PSI-4615S-4
<div>8" x 150' (203mm x 45.7m), Silicon Carbide</div> <div>3M</div>	60	PSI-4660S-8
	40	PSI-4640S-8
	30	PSI-4630S-8
	15	PSI-4615S-8



Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.



### 3M POLISHING PAPER

Polishing Paper is a special applications product available from PSI. This wet or dry use material, manufactured by the 3M Company, is a resin bonded abrasive coated on a 7 mil thick non-woven synthetic backing. The abrasive minerals are closely graded and specified by the more accurate micron grading system. Polishing Paper is available with silicon carbide abrasive in 30 and 15 micron grade, and aluminum oxide in 9, 3, 2 and 1 micron. Because of the "soft" resin bonding system used on this product, it is not a long lasting product. Used in the proper applications, however, its excellent polishing properties will make it an economical alternative.



Polishing Paper is available in the usual forms common to popular metallurgical lab equipment. This includes 8" and 12" diameter discs, 3", 3 7/16", and 4" rolls, and 8.5" x 11" sheets. The discs and sheets are available with either a Plain Back (PB) or with Pressure Sensitive Adhesive (PSA) back.

GRADE COMPARISON CHART				
Micron	Backing	ANSI	FEPA	Color
30	Plain or PSA	400	600	Green
15	Plain or PSA	800	1200	Gray
9	Plain or PSA	1200	2000	Light Blue
3	Plain or PSA	1800	3000	Pink
2	Plain	1900	3500	Aqua
1	Plain or PSA	2000	4000	Pale Green

Polishing Paper performs well on a variety of materials, the common element being those with mixed hardness. One customer reports excellent results on titanium implants, ceramic coated and bonded to human bone. Another customer has had favorable results on a powder metallurgy product involving high speed steel powder on an aluminum substrate. The same customer has also used PSI Polishing Paper on an aluminum/bronze powder alloy on an aluminum substrate. Both customers report previous problems with particle pull-out when using conventional grinding/polishing processes.

Polishing Paper is supplied by other companies in our field only in the 15 micron silicon carbide product as "grit 600 soft cut" in discs, 4" rolls and 9"x11" sheets. If you have used this 600 grit soft cut successively in the one grade, a trial of the other grades available from PSI is warranted. PSI supplies Polishing Paper in every grade manufactured by 3M in all popular laboratory forms and backings.

Typical applications include:

- CD/DVD repair
- Metal and alloy finishing
- Finishing jewelry and precious metals
- Finishing plastic, polyurethane, wood, and solid surface composites
- Remove scratches and restore transparency to acrylic and polycarbonate

If your work involves relatively softer materials with mixed hardness portions, you should try PSI Polishing Paper. Contact PSI to discuss the appropriate specification to fit your requirements.



**3M POLISHING PAPER  
PLAIN BACK SHEETS  
8½" x 11" (216mm x 279mm)**

DESCRIPTION	MICRON	COLOR	PSI #
8.5" x 11" (216mm x 279mm), Silicon Carbide, <b>Plain Back</b>	30	Green	PSI-3430S-11
	15	Gray	PSI-3415S-11
8.5" x 11" (216mm x 279mm), Aluminum Oxide, <b>Plain Back</b>	9	Lt Blue	PSI-3409-11
	3	Pink	PSI-3403-11
	2	Aqua	PSI-3402-11
	1	Pale Green	PSI-3401-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.



**PRESSURE SENSITIVE ADHESIVE SHEETS  
8½" x 11" (216mm x 279mm)**

DESCRIPTION	MICRON	COLOR	PSI #
8.5" x 11" (216mm x 279mm), Silicon Carbide, <b>PSA Back</b>	30	Green	PSI-3530S-11
	15	Gray	PSI-3515S-11
8.5" x 11" (216mm x 279mm), Aluminum Oxide, <b>PSA Back</b>	9	Lt Blue	PSI-3509-11
	3	Pink	PSI-3503-11
	1	Pale Green	PSI-3501-11

Many other sizes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## DIAMOND COMPOUND AND SUSPENSION

PSI Diamond Compounds and Suspensions are used in the polishing operation on many materials. Manufactured to PSI specifications, all diamond powders used in PSI compounds and suspensions are graded to meet the stringent standards of both the American National Standards Institute (ANSI) and the Federation Europeenne Des Fabricants a les Produits Abrasifs (FEPA). The virgin diamond powder particles are graded in a Micronizing Laboratory to the specified particle range utilizing fully automated, electronically monitored grading equipment, the specified particle size range may vary from as tight as 1 to .25 micron in the .1 micron compound to as large as 30 to 50 micron in the 45 micron compound.



Particle size distribution analysis is an integral part of the quality assurance program for all powders used in PSI Diamond Compound and Suspensions. A computerized particle analyzer is used to measure and record graphically the particle size distribution of all diamond powders used.

PSI offers the Diamond Compounds and the Diamond Suspensions with monocrystalline diamonds. Monocrystalline Diamond Powder is a product of high pressure, high temperature technology. The resulting product is single crystal in structure, blocky in shape and very strong. This blocky shape and high particle strength results in a diamond particle that "cuts" rapidly and consistently over a long polishing cycle.

All PSI Diamond Compounds and Suspensions are color coded for easy grade identification. Standard industrial use packaging is a 100gram jar for compounds and 64oz container for suspensions. The vehicle in which the diamond powders are carried is a mixture soluble in either oil or water based systems. This insures that PSI Diamond Compound will be compatible with solubility requirements in a variety of applications.

PSI Diamond Suspensions consist of a non-clogging formula which can be used where a drip or spray application is required.

To compliment PSI Diamond Compound, three Diamond Extenders are available in 2 sizes, quart and gallon. For most applications, the standard universally soluble product is most popular. Where there is a question of water reactivity, the oil soluble extender is the correct choice. For those who prefer the blue alcohol soluble product, it also is available.

Contact PSI by phone, fax or email to discuss your specific application.

COLOR/GRADE CHART		
Micron	Color	Particle Range
45 $\mu$	Purple	30-50 $\mu$
30 $\mu$	Mahogany	20-40 $\mu$
15 $\mu$	Brown	12-22 $\mu$
9 $\mu$	Red	8-12 $\mu$
6 $\mu$	Yellow	4-8 $\mu$
3 $\mu$	Green	2-4 $\mu$
1 $\mu$	Blue	0-2 $\mu$
.5 $\mu$	Turquoise	0-1 $\mu$
.25 $\mu$	Gray	0-.5 $\mu$
.1 $\mu$	Charcoal	0.25 $\mu$

## DIAMOND COMPOUND

DESCRIPTION	MICRON	COLOR	PSI #
Rough Finish	45	Purple	PSI-545MC-100B
	30	Mahogany	PSI-530MC-100B
Middle Finish	15	Brown	PSI-515MC-100B
	9	Red	PSI-509MC-100B
Final Finish	6	Yellow	PSI-506MC-100B
	3	Green	PSI-503MC-100B
Ultimate Finish	1	Blue	PSI-501MC-100B
	.5	Turquoise	PSI-506MC-100B
	.25	Gray	PSI-500MC-100B
	.1	Charcoal	PSI-5.1MC-100B



5 gram and 18 gram syringes are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.

## DIAMOND EXTENDER

DESCRIPTION	SIZE	COLOR	PSI #
Universally Soluble	1 qt (.95L)	Orange	PSI-542-1
	1 gal (3.8L)	Orange	PSI-542-4
Oil Soluble	1 qt (.95L)	Opaque	PSI-543-1
	1 gal (3.8L)	Opaque	PSI-543-4
Alcohol Base	1 qt (.95L)	Blue	PSI-544-1
	1 gal (3.8L)	Blue	PSI-544-4



## DIAMOND SUSPENSION

DESCRIPTION	MICRON	COLOR	PSI #
Monocrystalline Diamond, Non-Clogging Formula, 64 oz (1.89L)	45	Purple	PSI-545MC-64
	30	Mahogany	PSI-530MC-64
	15	Brown	PSI-515MC-64
	9	Red	PSI-509MC-64
	6	Yellow	PSI-506MC-64
	3	Green	PSI-503MC-64
	1	Blue	PSI-501MC-64
	.5	Turquoise	PSI-5.5MC-64
	.25	Gray	PSI-500MC-64
	.1	Charcoal	PSI-5.1MC-64

Gallon and 16oz containers are available. Please see [www.psidragon.com](http://www.psidragon.com) or call for information.