



Versatile, convenient and efficient, 3M manufactures a complete line of coated abrasives to handle all of your random orbital abrasive needs. From pressure-sensitive adhesive coating on the back, to traditional hook-and-loop style abrasives, 3M offers a variety of attachment systems to meet your challenging applications.

Discs

Selection Guide

	Product	Mineral Type	Backing	Weight	Load-Resistant/ Grinding Aid	Substrate							Application				Metal Type			
						Gel Coat	Composites	Solid Surface	E-Coat	Primer/ Paint Prep	Wood	Metal	Grinding	Blending	Deburring	Finishing	Aluminum	Carbon Steel	Non-Ferrous (Brass/Bronze)	Stainless Steel
Good	NX	Aluminum Oxide	Paper	C/D	Y	•	•			•	•	•		•	•					
	216U	Aluminum Oxide	Paper	A	Y	•	•	•	•	•	•	•		•	•		•	•	•	
	255L	Aluminum Oxide	Film	Film	Y	•	•	•	•	•	•	•		•	•		•	•	•	
	426U	Silicon Carbide	Paper	A	Y					•	•	•							•	
Better	202DZ	Aluminum Oxide	Cloth	J	N							•	•		•	•	•			
	UPGRADED! 236U	Aluminum Oxide	Paper	C	Y	•	•	•	•	•	•	•		•	•		•	•	•	
	348D	Aluminum Oxide	Cloth	X	N						•	•	•		•	•		•	•	
	360L	Aluminum Oxide	Film	Film	N	•	•	•		•	•				•					
	363I	Aluminum Oxide	Paper	F	N	•	•		•	•	•	•		•	•		•			
Best	NEW! 375L	Aluminum Oxide	Film	Film	Y	•	•	•	•	•	•	•		•	•		•	•	•	
	366L	Aluminum Oxide	Film	Film	Y	•	•	•		•	•	•		•	•		•	•	•	
	735U	Blended Ceramic Aluminum Oxide	Paper	C	Y	•	•	•		•	•	•		•	•		•	•	•	
	777F	Aluminum Oxide	Cloth	Y	Y						•	•	•		•	•		•	•	
	900DZ	Ceramic	Cloth	J	N		•		•	•	•	•		•	•		•	•		

Random Orbital Sanding – Unfinished Wood

Application Information: 3M™ Stikit™ and Hookit™ Positioning Chart

Substrate	Backing	Stock Removal (Dimensioning) Grades 60–80	Medium Stock Removal (Intermediate Sanding) Grades P100–P150	Finishing (Defect Removal) Grades P180 and Finer
Hardwoods	Cloth	202DZ, 900DZ	202DZ, 900DZ	202DZ, 900DZ
	Film	255L, 366L, 375L NEW!	255L, 366L, 375L NEW!	255L, 366L, 375L NEW!
	Paper	NX, 236U, 363I, 735U	NX, 236U, 735U	NX, 236U, 426U, 735U
Softwoods	Cloth	202DZ, 900DZ	202DZ, 900DZ	202DZ, 900DZ
	Film	255L, 366L, 375L NEW!	255L, 366L, 375L NEW!	255L, 366L, 375L NEW!
	Paper	NX, 236U, 363I, 735U	NX, 236U, 735U	NX, 236U, 426U, 735U

Starting Point Recommendations

Step 1

Initial sanding should level the work piece if not previously sanded by a wide belt machine. For quick leveling and aggressive, coarse sanding operations, use a disc in grade 80 or 100.

Step 2

Intermediate sanding should use a disc in grade 120 or 150, depending on the abrasive grade used on the previous step. It is recommended to skip no more than one grade between sanding steps.

Step 3

Recommend finishing using either grade 180 or 220. The wood type, machine parameters and finish used will determine the appropriate abrasive grade.

Work Piece	Hardwood			Softwood			
	Starting Point	Step 1	Step 2	Step 3	Step 1	Step 2	Step 3
Heavy Sanding (required): has a 60 or 80 grit wide belt finish or an 80 grit Random Orbital Sander finish	735U P100	735U P150	255L P220	426U 180*	735U P100	735U P120	735U P180
Intermediate Sanding (required): has a 100 or 120 grit wide belt finish or a 120 grit Random Orbital Sander finish	735U P150	255L P220	426U 180*		735U P180	426U 180*	
Light Sanding (required): has a 150–180 grit wide belt finish or a 150 grit Random Orbital Sander finish		255L P220	426U 180*		735U P180	426U 180*	

*426U is a final step option when finish is the most critical criteria.

When a finer finish is required for very hard woods such as hard maple or hickory, it might be necessary to use a disc that is one grade finer for the final step.

3M™ Stikit™ Discs – Cloth Better

3M™ Stikit™ Cloth Disc 202DZ

- Aluminum oxide on a J wt. cloth backing
- Open coat
- Cloth backing provides excellent durability

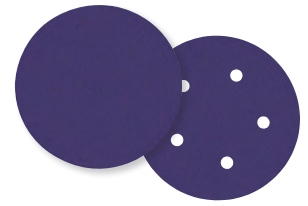


UPC Number	Diameter	Grade	Min/Case
Individual Discs with Liners			
051111-50450-5	5" x NH	80	50/250
051111-50451-2	5" x NH	P100	50/250
051111-50452-9	5" x NH	P120	50/250
051111-50453-6	5" x NH	P150	50/250
051111-50454-3	5" x NH	P180	50/250
051111-50455-0	5" x NH	P220	50/250
051111-50459-8	6" x NH	80	50/250
051111-50460-4	6" x NH	P100	50/250
051111-50461-1	6" x NH	P120	50/250
051111-50462-8	6" x NH	P150	50/250
051111-50463-5	6" x NH	P180	50/250
051111-50464-2	6" x NH	P220	50/250
Convenient Disc Roll Form			
051111-61135-7	5" x NH	80	100/4
051111-61136-4	5" x NH	P100	100/4
051111-61137-1	5" x NH	P120	100/4
051111-61138-8	5" x NH	P150	100/4
051111-61162-3	5" x NH	P180	100/4
051111-61163-0	5" x NH	P220	100/4

3M™ Stikit™ Discs – Cloth Best

3M™ Stikit™ Disc 900DZ

- High performance, 3M Ceramic abrasive grain on a J wt. backing
- Open coat
- One disc does it all: flat surfaces as well as contours and curves
- Individual discs with liner



UPC Number	Diameter	Grade	Min/Case
051141-28099-8	5" x NH	60	50/250
051111-49639-8	5" x NH	80	50/250
051111-49640-4	5" x NH	P100	50/250
051111-49641-1	5" x NH	P120	50/250
051111-49643-5	5" x NH	P150	50/250
051111-49642-8	5" x NH	P180	50/250
051111-49644-2	5" x NH	P220	50/250
Dust-Free			
051141-28098-1	5" x 5 Hole	60	50/250
051141-28092-9	5" x 5 Hole	80	50/250
051141-28093-6	5" x 5 Hole	P100	50/250
051141-28094-3	5" x 5 Hole	P120	50/250
051141-28096-7	5" x 5 Hole	P150	50/250
051141-28095-0	5" x 5 Hole	P180	50/250
051141-28097-4	5" x 5 Hole	P220	50/250

3M™ PSA Discs – Cloth Better

Vertical Disc Sanding 3M™ PSA Discs 348D

- General purpose, aluminum oxide on an X wt. cloth backing
- Heavy-duty cloth-backed disc for more aggressive applications
- Provides excellent adhesion to the pad, but removes easily



UPC Number	Diameter	Grade	Min/Case
051144-88906-8	12"	36	10
051144-88905-1	12"	40	10
051144-88904-4	12"	50	10
051144-88903-7	12"	60	10
051144-88902-0	12"	80	10
051144-88901-3	12"	P100	10

3M™ PSA Discs – Cloth Best

Vertical Disc Sanding 3M™ PSA Discs 777F

- Blended 3M Ceramic abrasive grain and premium aluminum oxide mineral on a water resistant polyester YF wt. cloth backing
- Recommended for dry use only
- Primarily used for metalworking



UPC Number	Diameter	Grade	Min/Case
051144-88869-6	12"	36	10
051144-88873-3	12"	40	10
051144-88872-6	12"	50	10
051144-88871-9	12"	60	10
051144-88870-2	12"	80	10