



POWERFLEX DISCS

The innovative design of Merit’s advanced PowerFlex Flap Discs allows you to grind and finish in only one smooth operation — saving both time and money.

With the two-in-one PowerFlex Disc there’s no need to change tools, no need for additional processes and no need for a backing pad.

PowerFlex Discs also grind cooler without bluing and last up to 15 times longer than resin fiber discs. They are safe, quiet, and easy to control for rapid stock removal, consistent finishes and longer disc life.

The layered abrasive flaps on the flap disc are designed to wear away evenly. PowerFlex Discs produce a high-quality, consistent finish on steels, metals, and other exotic materials.



**Type 29 –
15° Surface Flap**



Type 27 – Flat



Contoured PowerFlex Discs – Ceramic

Ultra Ceramic Plus PowerFlex Disc

Ultra Ceramic Plus PowerFlex discs are the longest lasting, highest performance flap discs available. Ceramic Abrasive on a heavy polyester backing results in industry leading life and value.



Type 29
Contoured Flap Discs have a built-in angle that is designed for best use at an applied angle from 5 to 15 degrees.

TYPE 29 – ULTRA CERAMIC PLUS FIBERGLASS PLATE POWERFLEX DISCS

DIA. X A.H.	GRIT	FIBERGLASS PLATE
4" x 5/8"	36	08834191048
15,300 RPM	40	08834191049
10/box	60	08834191050
100/case	80	08834191051
	100	08834191053
	120	08834191054
4-1/2" x 7/8"	36	08834191055
13,300 RPM	40	08834191057
10/box	60	08834191058
100/case	80	08834191059
	100	08834191083
	120	08834191084
5" x 7/8"	36	08834191085
12,000 RPM	40	08834191086
10/box	60	08834191087
40/box	80	08834191089
	100	08834191090
	120	08834191091
7" x 7/8"	36	08834191092
8,600 RPM	40	08834191093
10/box	60	08834191094
40/case	80	08834191095
	100	08834191096
	120	08834191097

TYPE 29 – ULTRA CERAMIC PLUS 3/8-24 RAISED PLATE POWERFLEX DISCS

DIA. X THD.	GRIT	FIBERGLASS PLATE
4" x 3/8"-24	36	08834191300
15,300 RPM	40	08834191330
10/box	60	08834191331
100/case	80	08834191342
	100	08834191345
	120	08834191581

TYPE 29 – ULTRA CERAMIC PLUS 5/8-11 RAISED HUB POWERFLEX DISCS

DIA. X THD.	GRIT	FIBERGLASS PLATE
4-1/2" x 5/8"-11	36	08834191098
13,300 RPM	40	08834191099
10/box	60	08834191193
100/case	80	08834191200
	100	08834191201
	120	08834191202
5" x 5/8"-11	36	08834191204
12,000 RPM	40	08834191205
10/box	60	08834191215
40/case	80	08834191282
	100	08834191283
	120	08834191284
7" x 5/8"-11	36	08834191285
8,600 RPM	40	08834191295
10/box	60	08834191296
40/case	80	08834191297
	100	08834191298
	120	08834191299

POWERFLEX DISCS

Tip

Premium performance for heavy grinding, reducing change-overs and increasing productivity.



Contoured PowerFlex Discs – Zirc Plus

Premium Zirconia Plus R801 PowerFlex Disc

Premium Zirconia Plus PowerFlex discs use premium zirconia alumina abrasive with a grinding aid on a heavy polyester backing. Outstanding product for heavy stock removal on a wide variety of hard to grind materials.

TYPE 29 – PREMIUM ZIRCONIA PLUS R801 POWERFLEX DISCS – FIBERGLASS PLATE

DIA. X A.H.	GRIT	FIBERGLASS PLATE
4" x 5/8" 15,300 RPM 10/box 100/case	36	08834190164
	40	08834191154
	60	08834191348
	80	08834191349
	100	08834191412
4-1/2" x 7/8" 13,300 RPM 10/box 100/case	120	08834191434
	36	08834190178
	40	08834190179
	60	08834190761
	80	08834190180
5" x 7/8" 12,000 RPM 10/box 40/case	100	08834191435
	120	08834191445
	36	08834191484
	40	08834191485
	60	08834191486
7" x 7/8" 8,600 RPM 10/box 40/case	80	08834191487
	100	08834191488
	120	08834191469
	36	08834199675
	40	08834191501
	60	08834190765
	80	08834191502
	100	08834191503
	120	08834191540

TYPE 29 – PREMIUM ZIRCONIA PLUS R801 POWERFLEX DISCS – 3/8-24 RAISED HUB

DIA. X THD.	GRIT	FIBERGLASS PLATE
4" x 3/8"-24 15,300 RPM 10/box 40/case	36	08834191541
	40	08834191542
	60	08834191543
	80	08834191544
	100	08834191546
120	08834191548	

TYPE 29 – PREMIUM ZIRCONIA PLUS R801 POWERFLEX DISCS – 5/8-11 THD. RAISED HUB

DIA. X THD.	GRIT	FIBERGLASS PLATE
4-1/2" x 5/8"-11 13,300 RPM 10/box 40/case	36	08834190436
	40	08834191594
	60	08834198008
	80	08834190455
	100	08834191552
5" x 5/8"-11 12,000 RPM 10/box 40/case	120	08834191553
	36	08834191554
	40	08834191562
	60	08834191574
	80	08834191575
7" x 5/8"-11 8,600 RPM 10/box 40/case	100	08834191576
	120	08834191577
	36	08834191578
	40	08834191041
	60	08834190764
	80	08834191437
	100	08834191579
	120	08834191580



**Zirconia Alumina
Fiberglass Plate**

Contoured PowerFlex Discs

Type 29 Contoured Flap Discs are the most aggressive option. Angled face provides greater surface contact with higher metal removal rates.

Zirconia Alumina Contoured PowerFlex Discs

High Performance Zirconia Alumina produces an aggressive cut and long life. Best all-around product for flap discs.

Aluminum Oxide Contoured PowerFlex Discs

Aluminum Oxide is a good option for a smooth cutting, excellent finishing flap disc.

TYPE 29 – CONTOURED POWERFLEX DISCS

DIA. X A.H.	GRIT	ZIRCONIA ALUMINA		ALUMINUM OXIDE
		ALUMINUM PLATE	FIBERGLASS PLATE	FIBERGLASS PLATE
4" x 5/8" 15,300 RPM 10/box 100/case	24	08834193718	08834193722	08834193732
	36	08834193422	08834193630	08834193656
	40	08834193709	08834193645	08834193657
	60	08834193429	08834193631	08834193658
	80	08834193432	08834193632	08834193659
	120	08834193471	08834193646	08834193661
4-1/2" x 7/8" 13,300 RPM 10/box 100/case	24	08834193719	08834193723	08834193733
	36	08834193421	08834193633	08834193662
	40	08834193710	08834193647	08834193663
	60	08834193424	08834193634	08834193664
	80	08834193425	08834193635	08834193665
	120	08834193711	08834193648	08834193667
5" x 7/8" 12,000 RPM 10/box 40/case	24	08834193720	08834193724	08834193734
	36	08834193712	08834193649	08834193668
	40	08834193713	08834193650	08834193669
	60	08834193714	08834193651	08834193670
	80	08834193715	08834193652	08834193671
	120	08834193716	08834193653	08834193672
7" x 7/8" 8,600 RPM 10/box 40/case	24	08834193430	08834193725	08834193735
	36	08834193431	08834193636	08834193673
	40	08834193717	08834193654	08834193674
	60	08834193434	08834193637	08834193675
	80	08834193435	08834193638	08834193676
	120	08834193437	08834193655	08834193678

HUBBED TYPE 29 ZIRCONIA POWERFLEX DISCS ARE ON PAGE 44.



**Type 29
Contoured Flap Discs
have a built-in angle that is
designed for best use at an
applied angle from
5 to 15 degrees.**



Tip For comparable finish,
use one grit coarser
than resin fiber discs

Contoured PowerFlex Discs (continued)



**Zirconia Fiberglass
5/8-11 Hub**

TYPE 29 – CONTOURED 5/8 - 11 THD. RAISED PLATE

DIA. X THD.	GRIT	ZIRCONIA ALUMINA		ALUMINUM OXIDE
		ALUMINUM PLATE	FIBERGLASS PLATE	FIBERGLASS PLATE
4-1/2" x 5/8"-11 13,300 RPM 10/box 40/case	24	08834190101	08834193726	08834193729
	36	08834190102	08834193679	08834193694
	40	08834190103	08834193680	08834193695
	60	08834190104	08834193681	08834193696
	80	08834190106	08834193682	08834193697
	120	08834190107	08834193683	08834193698
5" x 5/8"-11 12,000 RPM 10/box 40/case	24	08834190109	08834193727	08834193730
	36	08834190110	08834193684	08834193699
	40	08834190111	08834193685	08834193700
	60	08834190112	08834193686	08834193701
	80	08834190115	08834193687	08834193702
	120	08834190118	08834193688	08834193703
7" x 5/8"-11 8,600 RPM 10/box 40/case	24	08834190119	08834193728	08834193731
	36	08834190120	08834193689	08834193704
	40	08834190121	08834193690	08834193705
	60	08834190122	08834193691	08834193706
	80	08834190123	08834193692	08834193707
	120	08834190129	08834193693	08834193708



**Contoured, Type 29
5/8-11 Raised Hub for
quick and easy mounting
and removal.**

Mini PowerFlex Discs

For the job that requires an aggressive but small diameter flap disc, try Merit Mini PowerFlex Discs. Safe, quiet and easy to control, the Mini PowerFlex disc is designed with layered flaps which wear away evenly, producing a high quality and consistent finish on metals and other exotic materials – and with a quick change feature on the back of each disc, downtime is reduced dramatically. For use with Type II or Type III holders.



TYPE 27 – ZIRCONIA MINI POWERFLEX DISCS

DIAMETER	GRIT	TYPE II	TYPE III
2" 24,000 RPM 10/tube 100/case	36	08834195020	08834194550
	40	08834195021	08834194551
	60	08834195022	08834194552
	80	08834195023	08834194553
	120	08834195024	08834194554
3" 20,000 RPM 10/tube 100/case	36	08834195035	08834194563
	40	08834195036	08834194564
	60	08834195037	08834194565
	80	08834195038	08834194566
	120	08834195039	08834194567

**Type II
Mini PowerFlex Holder**

Part # 08834168539

**Type III
Mini PowerFlex Holder**

Part # 08834160172

POWERFLEX ADAPTER KIT

DESCRIPTION	PART #
Disc pad nut 5/8-11 thd. and bell shape washer	08834190908



Flat PowerFlex Discs



Flat, Type 27
The best choice for smooth finishing.
Type 27 flap discs are used at flatter angles (0 to 15 degrees) and are used primarily on flat surfaces.

TYPE 27 – FLAT POWERFLEX DISCS

DIA. X A.H.	GRIT	ZIRCONIA ALUMINA		ALUMINUM OXIDE
		ALUMINUM PLATE	FIBERGLASS PLATE	FIBERGLASS PLATE
4-1/2" x 7/8" 13,300 RPM 10/box 40/case	24	08834190855	08834190785	08834190786
	36	08834190856	08834190789	08834190827
	40	08834190857	08834190728	08834190787
	60	08834190858	08834190750	08834190753
	80	08834190859	08834190751	08834190826
	120	08834190860	08834190825	08834190828
5" x 7/8" 12,000 RPM 10/box 40/case	24	08834194933	08834194939	08834195181
	36	08834194934	08834194940	08834195182
	40	08834194935	08834194941	08834195183
	60	08834194936	08834194942	08834195184
	80	08834194937	08834194943	08834195185
	120	08834194938	08834194944	08834195186
7" x 7/8" 10/box 8,600 RPM 40/case	24	08834190884	08834190838	08834190829
	36	08834190863	08834190783	08834190830
	40	08834190864	08834190788	08834190831
	60	08834190865	08834190839	08834190835
	80	08834190866	08834190720	08834190836
	120	08834190867	08834190840	08834190837



Flat, Type 27 with Raised Hub
for quick and easy mount and removal.

TYPE 27 – FLAT 5/8-11 THD. POWERFLEX DISCS

DIA. X THD.	GRIT	ZIRCONIA ALUMINA		ALUMINUM OXIDE
		ALUMINUM PLATE	FIBERGLASS PLATE	FIBERGLASS PLATE
4-1/2" x 5/8"-11 13,300 RPM 10/box 40/case	24	08834194985	08834194380	08834195196
	36	08834190937	08834193319	08834195198
	40	08834194986	08834190923	08834190922
	60	08834194987	08834194925	08834190921
	80	08834194988	08834193320	08834190885
	120	08834194989	08834193619	08834190899
5" x 5/8"-11 12,000 RPM 10/box 40/case	24	08834194945	08834194951	08834195207
	36	08834194946	08834194952	08834195208
	40	08834194947	08834194953	08834195209
	60	08834194948	08834194954	08834195212
	80	08834194949	08834194955	08834195213
	120	08834194950	08834194956	08834195214
7" x 5/8"-11 8,600 RPM 10/box 40/case	24	08834194926	08834190965	08834195220
	36	08834190939	08834190886	08834195221
	40	08834194927	08834190887	08834195222
	60	08834194928	08834192055	08834195223
	80	08834194929	08834192294	08834195224
	120	08834194930	08834192169	08834191277

POWERFLEX DISCS



High Density PowerFlex Discs

High Density PowerFlex Disc

Provides the same high performance as our regular PowerFlex, but with 50% more usable abrasive. The added abrasive gives a cushion to the product which provides a quick grind with less heat to produce a higher quality finish.



TYPE 29 – HIGH DENSITY

DIA. X A.H.	GRIT	ZIRCONIA ALUMINA FIBERGLASS PLATE
4-1/2" x 7/8" AH	24	08834194833
13,000 RPM	36	08834191427
10/box	40	08834190726
100/case	60	08834190175
	80	08834190924
	120	08834190995
7" x 7/8" AH	24	08834190877
8,600 RPM	36	08834190878
10/box	40	08834192059
40/case	60	08834196985
	80	08834196986
	120	08834196988

TYPE 27 – HIGH DENSITY

DIA. X A.H.	GRIT	ZIRCONIA ALUMINA FIBERGLASS PLATE
4-1/2" x 7/8" AH	24	08834194834
13,300 RPM	36	08834192985
10/box	40	08834190172
100/case	60	08834190767
	80	08834194360
	120	08834194841
7" x 7/8" AH	24	08834194831
8,600 RPM	36	08834194361
10/box	40	08834190933
40/case	60	08834194514
	80	08834194362
	120	08834194832

TYPE 29 – HIGH DENSITY 5/8-11 RAISED HUB

DIA. X A.H.	GRIT	ZIRCONIA ALUMINA FIBERGLASS PLATE
4-1/2" x 5/8"-11	36	08834194447
13,000 RPM	40	08834193906
10/box	60	66261044504
100/case	80	66261044505
	120	66261044506
7" x 5/8"-11	36	08834193830
8,600 RPM	40	66261044540
10/box	60	08834199751
40/case	80	08834192896
	120	66261044541

TYPE 27 – HIGH DENSITY 5/8-11 RAISED HUB

DIA. X A.H.	GRIT	ZIRCONIA ALUMINA FIBERGLASS PLATE
4-1/2" x 5/8"-11	24	08834191969
13,000 RPM	36	08834199749
10/box	40	08834194731
100/case	60	08834199750
	80	08834190330
	120	08834191941
7" x 5/8"-11	24	08834191986
8,600 RPM	36	08834195073
10/box	40	08834191043
40/case	60	08834197227
	80	08834191674
	120	08834191987

Tip

Know your competition! To keep a competitive edge, run High Density PowerFlex Discs versus other manufacturer's Jumbo, XL or High Density Discs.