

FLAP DISC SELECTION GUIDE

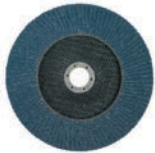


CERAMIC PRO



Optimize your grinding operations by selecting a disc designed for your unique applications

ZIRCONIA GP



When you need an abrasive product that can grind your toughest jobs and still provide the finishes your customers expect, Standard Abrasives™ Flap Discs will deliver.

ZIRCONIA AP



Available in four engineered constructions for specific grinding operations, Standard Abrasives Flap Discs are your “custom solution” to lower abrasive costs.


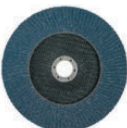


ZIRCONIA HP



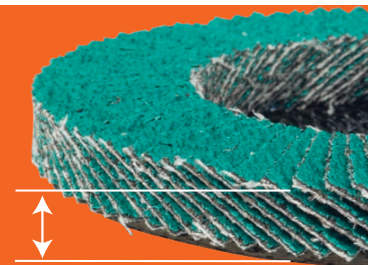
Pick the right flap disc for the job.

| | |
|--------------------|----------------------------------|
| CERAMIC PRO | Stainless / High Tensile Alloys |
| GP | Low Pressure / Flat Surfaces |
| AP | All Purpose / Multi-Applications |
| HP | High Pressure / Edges |

All of the Standard Abrasives™ Flap Discs deliver exceptional cut and life. But pairing the right Flap Disc with your unique application will ensure you're getting peak performance and market-leading value.

| Flap Disc | Best Application | Mineral | Backing | Wheel Type | Sizes | Benefit |
|--|---|------------------------|--------------------|--------------------|--|---|
|  Ceramic Pro | Low to medium-high pressure grinding, weld removal, deburring and finishing | Ceramic Aluminum Oxide | Y-wt. poly cotton | Type 27 Type 29 | 4 1/2" x 7/8" 4 1/2" x 5/8-11 7" x 7/8" 7" x 5/8-11 | Cuts faster and lasts longer for one-step grinding and finishing |
|  GP | Low pressure grinding: small welds, splatter, surface prep, finishing | Alumina Zirconia | X-wt. cotton | Type 27 Type 29 | 4 1/2" x 7/8" 4 1/2" x 5/8-11 7" x 7/8" 7" x 5/8-11 | Consistent flap wear exposes fresh mineral to maximize speed of cut |
|  AP | Versatile disc perform well on all applications | Alumina Zirconia | YF-wt. poly cotton | Type 27 Type 29 | 4 1/2" x 7/8" 4 1/2" x 5/8-11 7" x 7/8" 7" x 5/8-11 | Most versatile flap disc performs well when you need one disc for a variety of applications |
|  HP | High pressure grinding: beveling, deburring, edge chamfering | Alumina Zirconia | YF-wt. polyester | Type 27 Type 29 | 4 1/2" x 7/8" 4 1/2" x 5/8-11 7" x 7/8" 7" x 5/8-11 | Durable flaps hold up in tough applications to maximize disc life |

When you need more cutting power, select a “**High Density**” construction. Standard Abrasives™ High Density Flap Discs offer approximately 25% more abrasive material for added durability, cut and life to tackle your toughest grinding applications. Added thickness and flaps of High Density Flap Discs mean fewer disc changes and longer life.



Choose between Type 27 and Type 29.



T Y P E
27 Ideal for generating a smooth finish on flat areas or outside edges.



T Y P E
29 The angle allows for more aggressive cutting action, making this option ideal for stock removal and faster cutting on flats or contours.

A wide selection of discs for a wide variety of applications.

■ WELD REMOVAL ■ SPLATTER REMOVAL ■ BEVELING ■ DEBURRING ■ EDGE CHAMFERING ■ SURFACE PREP ■ FINISHING

Standard Abrasives™ Flap Discs are best for aggressive stock removal when you can't compromise your finish. The overlapping coated abrasive cloth flaps provide several layers of abrasives, making the disc flexible, long lasting and a great choice for one step grinding/blending.



| | CERAMIC PRO Type 27 | | | | CERAMIC PRO Type 29 | | | |
|-----------|------------------------|-----------------|-----------|-------------|------------------------|-----------------|-----------|-------------|
| | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 |
| GRADE | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. |
| 40 | 645109 | 645103 | 645121 | 645115 | 645133 | 645127 | 645145 | 645139 |
| 60 | 645110 | 645104 | 645122 | 645116 | 645134 | 645128 | 645146 | 645140 |
| 80 | 645111 | 645105 | 645123 | 645117 | 645135 | 645129 | 645147 | 645141 |
| Max. RPM | 13,300 | 13,300 | 8,600 | 8,600 | 13,300 | 13,300 | 8,600 | 8,600 |
| Min. Pkg. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |
| Case Qty. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |

| | ZIRCONIA GP Type 27 | | | | ZIRCONIA GP Type 29 | | | |
|-----------|------------------------|-----------------|-----------|-------------|------------------------|-----------------|-----------|-------------|
| | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 |
| GRADE | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. |
| 36 | 645922 | 645932 | 645982 | 645992 | 645902 | 645912 | 645962 | 645972 |
| 40 | 645923 | 645933 | 645983 | 645993 | 645903 | 645913 | 645963 | 645973 |
| 60 | 645924 | 645934 | 645984 | 645994 | 645904 | 645914 | 645964 | 645974 |
| 80 | 645925 | 645935 | 645985 | 645995 | 645905 | 645915 | 645965 | 645975 |
| 120 | 645926 | 645936 | 645986 | 645996 | 645906 | 645916 | 645966 | 645976 |
| Max. RPM | 13,300 | 13,300 | 8,600 | 8,600 | 13,300 | 13,300 | 8,600 | 8,600 |
| Min. Pkg. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |
| Case Qty. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |

| | ZIRCONIA AP Type 27 | | | | ZIRCONIA AP Type 29 | | | |
|-----------|------------------------|-----------------|-----------|-------------|------------------------|-----------------|-----------|-------------|
| | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 |
| GRADE | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. |
| 40 | 648928 | 648938 | 648988 | 648998 | 648908 | 648918 | 648968 | 648978 |
| 60 | 648929 | 648939 | 648989 | 648999 | 648909 | 648919 | 648969 | 648979 |
| 80 | 648930 | 648940 | 648990 | 648000 | 648910 | 648920 | 648970 | 648980 |
| Max. RPM | 13,300 | 13,300 | 8,600 | 8,600 | 13,300 | 13,300 | 8,600 | 8,600 |
| Min. Pkg. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |
| Case Qty. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |

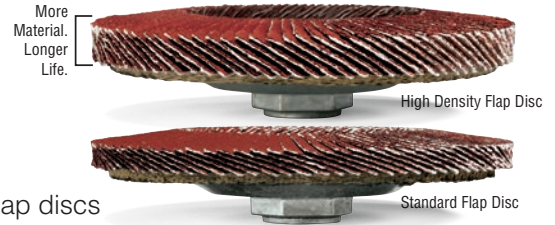
| | ZIRCONIA HP Type 27 | | | | ZIRCONIA HP Type 29 | | | |
|-----------|------------------------|-----------------|-----------|-------------|------------------------|-----------------|-----------|-------------|
| | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 |
| GRADE | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. |
| 36 | 645927 | 645937 | 645987 | 645997 | 645907 | 645917 | 645967 | 645977 |
| 40 | 645928 | 645938 | 645988 | 645998 | 645908 | 645918 | 645968 | 645978 |
| 60 | 645929 | 645939 | 645989 | 645999 | 645909 | 645919 | 645969 | 645979 |
| 80 | 645930 | 945940 | 645990 | 645000 | 645910 | 645920 | 645970 | 645980 |
| Max. RPM | 13,300 | 13,300 | 8,600 | 8,600 | 13,300 | 13,300 | 8,600 | 8,600 |
| Min. Pkg. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |
| Case Qty. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |

Standard Abrasives™ High Density Flap Discs.

Take a step toward greater productivity!

Standard Abrasives High Density Flap Discs are extra-thick, and packed with more abrasive muscle.

- 25% more abrasive material than our standard flap discs
- Delivers longer life and fewer disc changes than our standard flap discs



| CERAMIC PRO HIGH DENSITY Type 27 | | | | | CERAMIC PRO HIGH DENSITY Type 29 | | | |
|-------------------------------------|---------------|-----------------|-----------|-------------|-------------------------------------|-----------------|-----------|-------------|
| | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 |
| GRADE | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. |
| 40 | 645159 | 645153 | 645171 | 645165 | 645183 | 645177 | 645195 | 645189 |
| 60 | 645160 | 645154 | 645172 | 645166 | 645184 | 645178 | 645196 | 645190 |
| 80 | 645161 | 645155 | 645173 | 645167 | 645185 | 645179 | 645197 | 645191 |
| Max. RPM | 13,300 | 13,300 | 8,600 | 8,600 | 13,300 | 13,300 | 8,600 | 8,600 |
| Min. Pkg. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |
| Case Qty. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |

| ZIRCONIA AP - HIGH DENSITY Type 27 | | | | | ZIRCONIA AP - HIGH DENSITY Type 29 | | | |
|---------------------------------------|---------------|-----------------|-----------|-------------|---------------------------------------|-----------------|-----------|-------------|
| | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 |
| GRADE | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. |
| 40 HD | 648948 | 648958 | 648868 | 648878 | — | 648898 | 648708 | 648718 |
| 60 HD | 648949 | 648959 | 648869 | 648879 | 648889 | 648899 | 648709 | 648719 |
| 80 HD | 648950 | 648960 | 648870 | 648880 | 648890 | 648900 | 648710 | 648720 |
| Max. RPM | 13,300 | 13,300 | 8,600 | 8,600 | 13,300 | 13,300 | 8,600 | 8,600 |
| Min. Pkg. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |
| Case Qty. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |

| ZIRCONIA HP HIGH DENSITY Type 27 | | | | | ZIRCONIA HP HIGH DENSITY Type 29 | | | |
|-------------------------------------|---------------|-----------------|-----------|-------------|-------------------------------------|-----------------|-----------|-------------|
| | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 | 4 1/2" x 7/8" | 4 1/2" x 5/8-11 | 7" x 7/8" | 7" x 5/8-11 |
| GRADE | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. | PART NO. |
| 36 | 645947 | 645957 | 645867 | 645877 | 645887 | 645897 | 645707 | 645717 |
| 40 | 645948 | 645958 | 645868 | 645878 | 645888 | 645898 | 645708 | 645718 |
| 60 | 645949 | 645959 | 645869 | 645879 | 645889 | 645899 | 645709 | 645719 |
| 80 | 645950 | 645960 | 645870 | 645880 | 645890 | 645900 | 645710 | 645720 |
| Max. RPM. | 13,300 | 13,300 | 8,600 | 8,600 | 13,300 | 13,300 | 8,600 | 8,600 |
| Min. Pkg. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |
| Case Qty. | 10 | 10 | 5 | 5 | 10 | 10 | 5 | 5 |

SAFETY WARNING—Coated Abrasives are cutting tools and most of them are affixed to a drive member (holder pads, rubber drum, mandrel, etc.) and rotated at high speeds with a power tool. They should not be operated at higher than safe operating speeds. When using coated abrasives, safety glasses and gloves should be worn. Protective clothing may be required for continuous high speed grinding operations.

PRODUCT USE—All statements, technical information and recommendations contained in this document are based upon tests or experience that seller believes are reliable. However, many factors beyond seller's control can effect the use and performance of a seller's product in a particular application, including the conditions under which the product is used and the time and environments conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the seller's product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

WARRANTY AND LIMITED REMEDY—Unless stated otherwise in seller's product literature, packaging inserts or product packaging for individual products, seller warrants that each seller's product meets the applicable specifications at the time seller ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. Seller makes no other warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or any implied warranty arising out of a course of dealing, custom or usage of trade. User is responsible for determining whether the seller's product is fit for a particular purpose and suitable for user's application. If the seller's product is defective within the warranty period, your exclusive remedy and seller's sole obligation will be at seller's option, to replace the product or refund the purchase price.

LIMITATION OF LIABILITY—Except where prohibited by law, seller will not be liable for any loss or damage arising from the seller's product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence, or strict liability.

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