

## METABO ABRASIVES

### Interpreting the numbers

Most abrasive wheel manufacturers, Metabo included, work to an internationally recognized code to identify the different raw materials and characteristics of their products. This wheel code system tells you five main features of the wheel:

- Grain type
- Grain size
- Hardness of bond
- Bond type
- Reinforcing material

### Here's what it means.

First, and as we mentioned earlier, Metabo uses three grain types, identified by these letters:

Aluminum Oxide	=	<b>A</b>
Zirconia Alumina	=	<b>ZA</b>
Silicon Carbide	=	<b>C</b>

The first symbol in the code identifies the grain type.

The aggressiveness of the grain is largely determined by grain size. The larger the grain, the more aggressive the cut. Grain sizes are measured using a system of wire mesh sheets. Metabo uses grain sizes from 60 meshes (finer) to 16 meshes (coarser) to the inch. This is the second number on the code.

The bond holds the grain in place until the grain's useful working life is finished. The international grading system for Bond Hardness works on an alphabetical scale with A as the softest, and Z the hardest. The industry generally uses grades between

M and V: M being a softer grade and V being very hard. This is the third symbol on the code.

The last two symbols indicate the type of bond and the reinforcing material used. The type of bond used in Metabo resinoid abrasive wheels is a synthetic phenolic resin, which is denoted by the symbol B. The final symbol used is F, indicating that the reinforcing material used is fiberglass sheet.

Here are some typical examples of wheel grading using this system.

### **A 24 R B F**

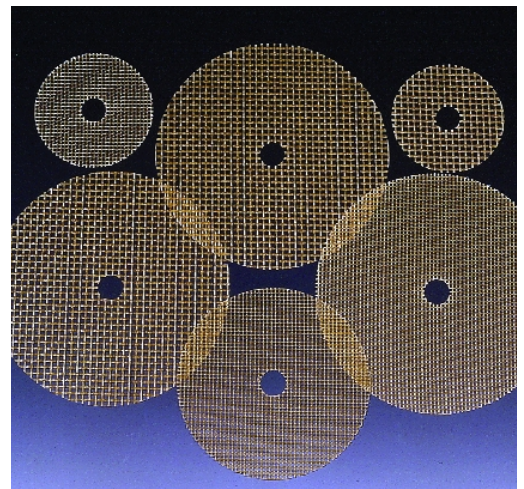
Aluminum Oxide grain, 24 grit grain size, and in the mid range on the bond hardness scale. A phenolic resin bond and fiberglass reinforcing.

### **ZA 24 T B F**

Zirconia Alumina grain, 24 grit grain size, and toward the harder end of the scale (better suited to zirconia alumina, with its greater friability). A very aggressive long life wheel. A Phenolic resin bond and fiberglass reinforcing.

### **C 30 S B F**

Silicon Carbide grain, 30 grit grain size, and a bond moving toward the higher (harder) end of the scale. A wheel with a reasonable life. A phenolic resin bond and fiberglass reinforcing.



*A fiberglass reinforcement layer, placed between the layers of abrasive grain, helps maintain the integrity of the wheel.*

# Type 27 Depressed Center Cutting Wheels



## Spec.



- A 30 P - - - Aluminum oxide wheel specially formulated for harder metals such as stainless steel. Good rate of cut. Good wheel life.
- A 30 R - - - Aluminum oxide general purpose wheel for heavier working conditions for steel and other ferrous metals. Very fast rate of cut. Good wheel life.
- C 30 S - - - Silicon carbide general purpose wheel for stone, concrete, cast iron, ductile iron, masonry materials, non-ferrous metals, brass, bronze, etc. Good rate of cut. Good wheel life.
- A 46 TZ- - - "CERAMIC" coated aluminum oxide formulated to provide very long life and very aggressive cool cutting action on all metals.
- A 60 TZ- - - Aluminum oxide wheel for steel and other ferrous metals. Extremely fast rate of cut. Good wheel life.



## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16328	4 x 3/32 x 3/8	A 30 R	Steel	19,000	25
16305	4 x 3/32 x 5/8	A 30 R	Steel	19,000	25
16306	4 x 3/32 x 5/8	C 30 S	Masonry / Non-Ferrous	19,000	25
16727	4-1/2 x 3/32 x 7/8	A 30 R	Steel	13,300	25
55727	4-1/2 x 3/32 x 5/8-11	A 30 R	Steel	13,300	25
16737	4-1/2 x 3/32 x 7/8	A 30 P	Stainless Steel	13,300	25
16728	4-1/2 x 3/32 x 7/8	C 30 S	Masonry / Non-Ferrous	13,300	25
55728	4-1/2 x 3/32 x 5/8-11	C 30 S	Masonry / Non-Ferrous	13,300	25
16310	5 x 3/32 x 7/8	A 30 R	Steel	12,300	25
55310	5 x 3/32 x 5/8-11	A 30 R	Steel	12,300	25
16312	5 x 3/32 x 7/8	C 30 S	Masonry / Non-Ferrous	12,300	25
55312	5 x 3/32 x 5/8-11	C 30 S	Masonry / Non-Ferrous	12,300	25
16313	6 x 1/8 x 7/8	A 30 R	Steel	10,200	25
55313	6 x 1/8 x 5/8-11	A 30 R	Steel	10,200	25
16314	6 x 1/8 x 7/8	A 30 P	Stainless Steel	10,200	25



## Large Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16300	7 x 1/8 x 7/8	A 30 R	Steel	8,500	10
16299	7 x 1/8 x 7/8	A 30 P	Stainless Steel	8,500	10
16301	7 x 1/8 x 7/8	C 30 S	Masonry / Non-Ferrous	8,500	10
55300	7 x 1/8 x 5/8-11	A 30 R	Steel	8,500	10
55299	7 x 1/8 x 5/8-11	A 30 P	Stainless Steel	8,500	10
55301	7 x 1/8 x 5/8-11	C 30 S	Masonry / Non-Ferrous	8,500	10
16302	9 x 1/8 x 7/8	A 30 R	Steel	6,600	10
16303	9 x 1/8 x 7/8	C 30 S	Masonry / Non-Ferrous	6,600	10
55302	9 x 1/8 x 5/8-11	A 30 R	Steel	6,600	10
55303	9 x 1/8 x 5/8-11	C 30 S	Masonry / Non-Ferrous	6,600	10



# Type 1 & 27 "ORIGINAL SLICER" Cutting Wheels



## Spec.

- A 36 TZ- - - Aluminum oxide wheel for steel and other ferrous metals. Fast rate of cut. Longer wheel life.
- A 46 TZ- - - Aluminum oxide general purpose wheel for steel and other ferrous metals. Excellent wheel life with aggressive cut.
- A 60 TZ- - - Aluminum oxide wheel for steel and other ferrous metals. Extremely fast rate of cut. Good wheel life.
- C 36 TB- - - Silicon carbide general purpose wheel for masonry, stone, tile, ductile iron and non-ferrous metals like aluminum, brass and copper.

## Small Grinders (Type 1)

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55348	2 x .035 x 3/8	A 60 TZ	Steel / Stainless Steel	30,558	100
55316	3 x .040 x 1/4	A 60 TZ	Steel / Stainless Steel	25,000	100
55317	3 x .040 x 3/8	A 60 TZ	Steel / Stainless Steel	25,000	100
55318	3 x 1/16 x 1/4	A 36 TZ	Steel / Stainless Steel	25,000	100
55358	3 x 1/16 x 1/4	A 60 TZ	Steel / Stainless Steel	25,000	100
55320	3 x 1/16 x 3/8	A 36 TZ	Steel / Stainless Steel	25,000	100
55321	3 x 1/16 x 3/8	A 60 TZ	Steel / Stainless Steel	25,000	100
55322	4 x .040 x 1/4	A 60 TZ	Steel / Stainless Steel	22,000	50
55323	4 x .040 x 3/8	A 60 TZ	Steel / Stainless Steel	22,000	50
55324	4 x .040 x 5/8	A 60 TZ	Steel / Stainless Steel	22,000	50
55325	4 x 1/16 x 1/4	A 36 TZ	Steel / Stainless Steel	19,000	100
55326	4 x 1/16 x 1/4	A 60 TZ	Steel / Stainless Steel	19,000	100
55327	4 x 1/16 x 3/8	A 36 TZ	Steel / Stainless Steel	19,000	100
55328	4 x 1/16 x 3/8	A 60 TZ	Steel / Stainless Steel	19,000	100
55329	4 x 1/16 x 5/8	A 36 TZ	Steel / Stainless Steel	19,000	100
55330	4 x 1/16 x 5/8	A 60 TZ	Steel / Stainless Steel	19,000	100
55331	4-1/2 x .040 x 7/8	A 60 TZ	Steel / Stainless Steel	15,000	100
55332	4-1/2 x 1/16 x 7/8	A 36 TZ	Steel / Stainless Steel	15,000	100
55333	4-1/2 x 1/16 x 7/8	A 60 TZ	Steel / Stainless Steel	15,000	100
55334	5 x .040 x 7/8	A 60 TZ	Steel / Stainless Steel	12,225	50
55335	5 x 1/16 x 7/8	A 36 TZ	Steel / Stainless Steel	12,225	50
55336	5 x 1/16 x 7/8	A 60 TZ	Steel / Stainless Steel	12,225	50
55999	6 x .040 x 3/8	A 60 TZ	Steel / Stainless Steel	14,000	50
55338	6 x .040 x 5/8	A 60 TZ	Steel / Stainless Steel	10,200	50
55339	6 x .040 x 7/8	A 60 TZ	Steel / Stainless Steel	10,200	50
55342	6 x 1/16 x 5/8	A 36 TZ	Steel / Stainless Steel	10,200	25
55343	6 x 1/16 x 5/8	A 60 TZ	Steel / Stainless Steel	10,200	25
55344	6 x 1/16 x 7/8	A 36 TZ	Steel / Stainless Steel	10,200	25
55345	6 x 1/16 x 7/8	A 60 TZ	Steel / Stainless Steel	10,200	25



## Small & Large Grinders (Type 27)

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55346	4-1/2 x .045 x 7/8	A 60 TZ	Steel / Stainless Steel	13,300	50
55347	6 x .045 x 7/8	A 60 TZ	Steel / Stainless Steel	10,200	50
55797	9 x 1/16 x 7/8	A 46 TZ	Steel / Stainless Steel	6,600	10
55799	9 x 1/16 x 5/8-11	A 46 TZ	Steel / Stainless Steel	6,600	10



## Combo Mandrel

Order #	Size
55168	1/4 x 1/4 and 3/8

(Mounts type 1 cutting wheels with 1/4" or 3/8" arbor holes to die grinders with 1/4" collets. Mount and guard wheels according to ANSI B7.1)

# Type 1 “SLICER-PLUS” High Performance Cutting Wheels



## Spec.

A 60 TX- - - “CERAMIC” coated aluminum oxide formulated to provide very long life and very aggressive cool cutting action on all metals.



## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55997	4-1/2 x .045 x 7/8	A 60 TX	Steel / Stainless Steel	15,000	50
55998	6 x .045 x 7/8	A 60 TX	Steel / Stainless Steel	10,185	50

# Type 1 “SUPER-SLICER” Extreme Performance Cutting Wheels

## Spec.

A 60 XP- - - Specially formulated blend of high-performance abrasive grain to provide the optimum combination of wheel life and cutting speed in more extreme applications such as thicker stainless steels, high tensile alloys and other extremely hard metals.



## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55994	4-1/2 x .045 x 7/8	A 60 XP	Steel / Alloys	15,000	50
55995	6 x .045 x 7/8	A 60 XP	Steel / Alloys	10,185	50

# Type 1 Cutting Wheels

## Spec.

- A 30 P - - - Aluminum oxide wheels specially formulated for harder metals such as stainless steel. Fast rate of cut. Good wheel life.
- A 30 R - - - Aluminum oxide wheels general purpose for steel and other ferrous metals. Good cutting rate. Excellent wheel life.
- A 30 S - - - Aluminum Oxide wheels for steel, other ferrous metals and rail track. Good rate of cut. Longer wheel life.
- C 30 S - - - Silicon carbide general purpose wheel for stone, concrete, cast iron, ductile iron, masonry materials, non-ferrous metals, brass, bronze, etc. Fast rate of cut. Good wheel life.



## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16321	3 x 1/8 x 3/8	A 30 S	Steel / Stainless Steel	20,500	25
16738	5 x 3/32 x 7/8	A 30 P	Stainless Steel	12,300	25
16732	5 x 3/32 x 7/8	A 30 R	Steel	12,300	25

## Circular Saws

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16331	6 x 1/8 x 5/8-Dm	A 30 S	Steel / Stainless Steel	10,200	25
16332	6 x 1/8 x 5/8-Dm	C 30 S	Masonry / Non-Ferrous	10,200	25
16333	7 x 1/8 x 5/8-Dm	A 30 S	Steel / Stainless Steel	8,500	10
16334	7 x 1/8 x 5/8-Dm	C 30 S	Masonry / Non-Ferrous	8,500	10
16335	8 x 1/8 x 5/8-Dm	A 30 S	Steel / Stainless Steel	7,600	10
16336	8 x 1/8 x 5/8-Dm	C 30 S	Masonry / Non-Ferrous	7,600	10



# Type 1 Cutting Wheels - High Speed Saws



## Spec.

- A 24 N - - - Aluminum oxide wheels general purpose for steel and other ferrous metals. Fast rate of cut. Good wheel life
- A 30 S - - - Aluminum oxide wheels for steel, other ferrous metals and rail track. Good rate of cut. Longer wheel life.
- C 16 N - - - Silicon carbide specially formulated for asphalt and green concrete. Good cutting rate. Good wheel life.
- C 24 N - - - Silicon carbide general purpose wheel for stone, concrete, cast iron, ductile iron, masonry materials, non-ferrous metals, brass, bronze, plastic, etc. Fast rate of cut. Good wheel life.
- C 30 S - - - Silicon carbide general purpose wheel for stone, concrete, cast iron, ductile iron, masonry materials, non-ferrous metals, brass, bronze, etc. Fast rate of cut. Good wheel life.
- AC 24 R - - - Aluminum oxide and Silicon carbide combination wheel specially formulated for ductile iron. Excellent rate of cut. Excellent wheel life. Smooth and chatter free cutting.



Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16136	12 x 1/8 x 20mm	A 24 N	Steel	6,400	10
16168	12 x 1/8 x 20mm	AC 24 R	Ductile Iron	6,400	10
16164	12 x 1/8 x 20mm	C 16 N	Asphalt	6,400	10
16156	12 x 1/8 x 20mm	C 24 N	Masonry / Non-Ferrous	6,400	10
16138	12 x 1/8 x 1	AC 24 R	Ductile Iron	6,400	10
16137	12 x 1/8 x 1	A 24 N	Steel	6,400	10
16158	12 x 1/8 x 1	C 16 N	Asphalt	6,400	10
16157	12 x 1/8 x 1	C 24 N	Masonry / Non-Ferrous	6,400	10
16140	14 x 1/8 x 20mm	A 24 N	Steel	5,460	10
16142	14 x 1/8 x 20mm	AC 24 R	Ductile Iron	5,460	10
16165	14 x 1/8 x 20mm	C 16 N	Asphalt	5,460	10
16160	14 x 1/8 x 20mm	C 24 N	Masonry / Non-Ferrous	5,460	10
16139	14 x 1/8 x 1	A 24 N	Steel/Rail Track	5,400	10
16149	14 x 1/8 x 1	AC 24 R	Ductile Iron	5,400	10
16161	14 x 1/8 x 1	C 16 N	Asphalt	5,400	10
16159	14 x 1/8 x 1	C 24 N	Masonry / Non-Ferrous	5,400	10
16204	16 x 5/32 x 1	A 30 S	Steel	4,800	10
16214	16 x 5/32 x 1	C 30 S	Masonry / Non-Ferrous	4,800	10



# Type 1 Cutting Wheels - Walk Behind Street Saws

## Spec.

- C 16 N - - - Silicon carbide specially formulated for asphalt and green concrete. Good cutting rate. Good wheel life.
- C 24 N - - - Silicon carbide general purpose wheel for cured concrete. Good cutting rate. Good wheel life. Used wet or dry.



Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16347	14 x 3/16 x 1 (with pin hole)	C 16 N	Asphalt	4,400	10
16350	14 x 3/16 x 1 (with pin hole)	C 24 N	Concrete	4,400	10

# Type 1 Cutting Wheels - Stationary Saws



## Spec.

- A 30 N - - - - Aluminum oxide wheels are specially formulated for high powered machines to cut steel and other ferrous metals. Excellent rate of cut. Good wheel life.
- A 30 R - - - - Aluminum oxide wheels are specially formulated for high powered machines to cut steel and other ferrous metals. Fast rate of cut. Longer wheel life.
- A 30 S - - - - Aluminum oxide wheels for steel, other ferrous metals and rail track. Good rate of cut. Longer wheel life.
- A 30 V - - - - Aluminum oxide wheels are specially formulated for high powered machines to cut steel and other ferrous metals. Good rate of cut. Excellent wheel life.
- C 30 S - - - - Silicon carbide wheels are specially formulated for high powered machines to cut masonry / ductile iron / non-ferrous metals. Good rate of cut. Excellent wheel life.



Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16341	10 x 1/8 x 5/8	A 30 R	Steel / Stainless Steel	6,100	10
16342	10 x 1/8 x 1	A 30 R	Steel / Stainless Steel	6,100	10
16344	10 x 1/8 x 1	A 30 V	Steel / Stainless Steel	6,100	10
16203	14 x 1/8 x 1	A 30 S	Steel / Stainless Steel	4,400	10
16211	14 x 1/8 x 1	A 30 V	Steel / Stainless Steel	4,400	10
16213	14 x 1/8 x 1	C 30 S	Masonry / Non-Ferrous	4,400	10
16204	16 x 5/32 x 1	A 30 S	Steel / Rail Track	4,800	10
16214	16 x 5/32 x 1	C 30 S	Masonry / Non-Ferrous	4,800	10
16365	20 x 3/16 x 1	A 30 N	Steel / Stainless Steel	3,000	10
16366	20 x 3/16 x 1	A 30 R	Steel / Stainless Steel	3,000	10
16367	20 x 3/16 x 1	A 30 V	Steel / Stainless Steel	3,000	10
16364	20 x 3/16 x 1	C 30 S	Ductile Iron	3,000	10



# Type 1 Cut-Off Wheels - Chop Saws



## Spec.

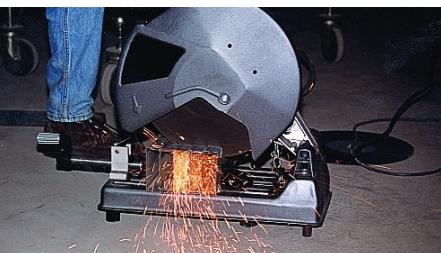
- A 24 M - - - - Aluminum oxide wheels for general purpose use on steel and other ferrous metals larger chop saw applications. Excellent rate of cut. Good wheel life.
- A 30 P - - - - Aluminum oxide wheels constructed with a single internal reinforcement and an aggressive cool cutting formulation best for cutting smaller diameter metals or metal studs.
- A 30 R - - - - Aluminum oxide wheels for general purpose use on steel and other ferrous metals. Good rate of cut. Good wheel life.
- A 30 S - - - - Aluminum oxide wheels specially formulated for dry wall stud applications. Good rate of cut. Good wheel life.

## Chop Saws - Double External Reinforcement

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16337	12 x 3/32 x 1	A 30 R	Steel / Stainless Steel	5,100	10
16340	14 x 3/32 x 1	A 24 M	Steel / Stainless Steel	4,300	10
16338	14 x 3/32 x 1	A 30 R	Steel / Stainless Steel	4,300	10
16146	14 x 3/32 x 1	A 30 S	Steel / Dry Wall Stud	4,300	10
16327	14 x 7/64 x 1	A 30 R	Steel / Stainless Steel	4,300	10
16215	16 x 3/32 x 1	A 24 M	Steel / Stainless Steel	3,820	10

## Chop Saws - Single Internal Reinforcement

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55236	14 x 3/32 x 1	A 30 P	Steel / Stainless Steel	4,300	10



# Abrasives

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**Even the world's best wheels need to be used safely. Here are some dos and don'ts every operator should follow.**

## **Do:**

1. Always handle and store wheels carefully.
2. Visually inspect all wheels for possible damage before mounting.
3. Make sure the machine's operating speed never exceeds the wheel speed.
4. Always check mounting flanges for equal and correct diameter.
5. Use mounting blotters when they're supplied with wheels.
6. Make absolutely sure work rest (where required) is properly adjusted (no more than 1/8" away from wheel.)
7. Always use a safety guard covering at least half of the grinding wheel.
8. Always run newly mounted wheels at full operating speed (with guard in place) for at least one minute before grinding.
9. Always wear safety glasses and appropriate face protection when grinding.
10. Always turn coolant off before stopping wheel, to avoid an out-of-balance condition.

## **Don't:**

1. Don't use a wheel that has been dropped.
2. Don't force a wheel onto the machine or alter the size of the mounting hole. If the wheel won't fit the machine, get one that will.
3. Don't ever exceed the maximum operating speed established for the wheel.
4. Don't use mounting flanges that are not clean, flat and designed for the wheel being used.
5. Don't tighten the mounting nut excessively.
6. Don't grind on the side of the wheel. (See ANSI B7.1 for exceptions).
7. Don't start the machine until the wheel guard is in place.
8. Don't jam work into the wheel.
9. Don't stand directly in front of a grinding wheel when a grinder is started.
10. Don't grind material for which the wheel is not designed.



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16303	... 42	16747	... 38	24244	... 52	55310	... 42	55405	... 50	55782	... 39	56406	... 56		
16305	... 42	16748	... 38	24246	... 51	55312	... 42	55406	... 50	55784	... 39	56407	... 56		
16306	... 42	16749	... 38	24247	... 51	55313	... 42	55407	... 50	55785	... 38	56408	... 56		
16307	... 38	16754	... 39	24248	... 51	55316	... 44	55408	... 50	55786	... 38	56409	... 56		
16308	... 38	16760	... 39	24256	... 52	55317	... 44	55410	... 50	55787	... 39	56410	... 56		
16310	... 42	16763	... 39	24258	... 52	55318	... 44	55411	... 50	55788	... 39	56411	... 56		
16312	... 42	16772	... 40	24259	... 52	55319	... 39	55412	... 50	55789	... 39	56412	... 56		
16313	... 42	16775	... 40	24356	... 51	55320	... 44	55413	... 50	55792	... 41	56413	... 56		
16314	... 42	16776	... 40	24358	... 51	55321	... 44	55414	... 50	55794	... 41	56414	... 56		
16319	... 39	16779	... 40	24359	... 51	55322	... 44	55415	... 50	55795	... 41	56415	... 56		
16321	... 45	16782	... 39	30727	... 49	55323	... 44	55416	... 50	55796	... 41	56425	... 51		
16325	... 38	16784	... 39	30728	... 49	55324	... 44	55417	... 50	55797	... 44	56426	... 51		
16327	... 48	16785	... 38	55132A	.. 58	55325	... 44	55419	... 50	55799	... 44	56427	... 52		
16328	... 42	16786	... 38	55132B	.. 58	55326	... 44	55420	... 50	55994	... 45	56428	... 52		
16330	... 38	16787	... 39	55133	... 58	55327	... 44	55421	... 50	55995	... 45	56429	... 52		
16331	... 45	16788	... 39	55134	... 58	55328	... 44	55422	... 50	55997	... 45	56430	... 52		
16332	... 45	16789	... 39	55135	... 58	55329	... 44	55423	... 50	55998	... 45	56431	... 52		
16333	... 45	16791	... 38	55136	... 58	55330	... 44	55424	... 50	55999	... 44	56432	... 52		
16334	... 45	16792	... 41	55137	... 58	55331	... 44	55425	... 50	56300	... 58	56433	... 52		
16335	... 45	16793	... 41	55138	... 58	55332	... 44	55426	... 50	56301	... 58	56434	... 52		
16336	... 45	16794	... 41	55168	... 44	55333	... 44	55427	... 50	56350	... 54	56435	... 52		
16337	... 48	16795	... 41	55180	... 43	55334	... 44	55428	... 50	56351	... 54	56436	... 52		
16338	... 48	16796	... 41	55181	... 43	55335	... 44	55429	... 50	56352	... 54	56437	... 52		
16339	... 38	16797	... 38	55182	... 43	55336	... 44	55430	... 50	56353	... 54	56600	... 59		
16340	... 48	23278	... 56	55183	... 43	55338	... 44	55431	... 50	56354	... 54	56601	... 59		
16341	... 47	23279	... 56	55184	... 43	55339	... 44	55432	... 50	56355	... 54	56602	... 59		
16341SB	. 49	23281	... 56	55185	... 43	55342	... 44	55433	... 50	56356	... 54	56603	... 59		
16342	... 47	23282	... 56	55187	... 43	55343	... 44	55434	... 50	56357	... 54	56604	... 59		
16342SB	. 49	23283	... 56	55188	... 43	55344	... 44	55435	... 50	56358	... 54	56605	... 59		

# Type 27 Depressed Center Grinding Wheels



## Spec.

- A 24 N - - - Aluminum oxide general purpose wheel for grinding steel and other ferrous metals in normal working conditions. High stock removal. Good wheel life.
- A 24 R - - - Aluminum oxide general purpose wheel for heavier working conditions for steel and other ferrous metals. Good stock removal. Longer wheel life.
- A 24 T - - - Aluminum oxide general purpose wheel for steel and other ferrous metals. Extremely long wheel life.
- A 36 O - - - Aluminum oxide wheel specially formulated for harder metals such as stainless steel. Good stock removal. Good wheel life.
- ZA 24 T- - - Zirconia alumina wheels for steel and stainless steel applications. Very aggressive stock removal. Extremely long wheel life.
- A 36 M - - - Aluminum oxide wheel formulated for aluminum grinding applications. Good stock removal. Good wheel life. Non clogging capability.
- C 24 N - - - Silicon carbide general purpose wheel for stone, concrete, cast iron, ductile iron, masonry materials, non-ferrous metals ,brass, bronze, etc. High stock removal. Good wheel life.

## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16325	3 x 1/4 x 3/8	A 36 O	Steel/Stainless Steel	20,500	25
16735	4 x 3/16 x 5/8	A 36 O	Steel/Stainless Steel	15,300	25
16339	4 x 1/4 x 3/8	A 24 R	Steel	15,300	25
16791	4 x 1/4 x 3/8	ZA 24 T	Steel / Stainless Steel	15,300	25
16745	4 x 1/4 x 5/8	A 24 N	Steel	15,300	25
16330	4 x 1/4 x 5/8	A 24 R	Steel	15,300	25
16797	4 x 1/4 x 5/8	ZA 24 T	Steel / Stainless Steel	15,300	25
16746	4 x 1/4 x 5/8	C 24 N	Masonry / Non-Ferrous	15,300	25
16726	4-1/2 x 1/4 x 7/8	A 24 N	Steel	13,300	25
16307	4-1/2 x 1/4 x 7/8	A 24 R	Steel	13,300	25
16275	4-1/2 x 1/4 x 7/8	A 24 T	Steel	13,300	25
16739	4-1/2 x 1/4 x 7/8	A 36 O	Stainless Steel	13,300	25
16785	4-1/2 x 1/4 x 7/8	ZA 24 T	Steel / Stainless Steel	13,300	25
16748	4-1/2 x 1/4 x 7/8	A 36 M	Aluminum	13,300	25
16729	4-1/2 x 1/4 x 7/8	C 24 N	Masonry / Non-Ferrous	13,300	25
55726	4-1/2 x 1/4 x 5/8-11	A 24 N	Steel	13,300	25
55307	4-1/2 x 1/4 x 5/8-11	A 24 R	Steel	13,300	25
55275	4-1/2 x 1/4 x 5/8-11	A 24 T	Steel	13,300	25
55785	4-1/2 x 1/4 x 5/8-11	ZA 24 T	Steel / Stainless Steel	13,300	25
55748	4-1/2 x 1/4 x 5/8-11	A 36 M	Aluminum	13,300	25
55729	4-1/2 x 1/4 x 5/8-11	C 24 N	Masonry / Non-Ferrous	13,300	25
16730	5 x 1/4 x 7/8	A 24 N	Steel	12,300	25
16308	5 x 1/4 x 7/8	A 24 R	Steel	12,300	25
16486	5 x 1/4 x 7/8	A 24 T	Steel	12,300	25
16747	5 x 1/4 x 7/8	A 36 O	Stainless Steel	12,300	25
16786	5 x 1/4 x 7/8	ZA 24 T	Steel / Stainless Steel	12,300	25
16749	5 x 1/4 x 7/8	A 36 M	Aluminum	12,300	25
16731	5 x 1/4 x 7/8	C 24 N	Masonry / Non-Ferrous	12,300	25
55730	5 x 1/4 x 5/8-11	A 24 N	Steel	12,300	25
55308	5 x 1/4 x 5/8-11	A 24 R	Steel	12,300	25
55486	5 x 1/4 x 5/8-11	A 24 T	Steel	12,300	25
55747	5 x 1/4 x 5/8-11	A 36 O	Steel / Stainless Steel	12,300	25
55786	5 x 1/4 x 5/8-11	ZA 24 T	Steel / Stainless Steel	12,300	25

# Type 27 Depressed Center Grinding Wheels



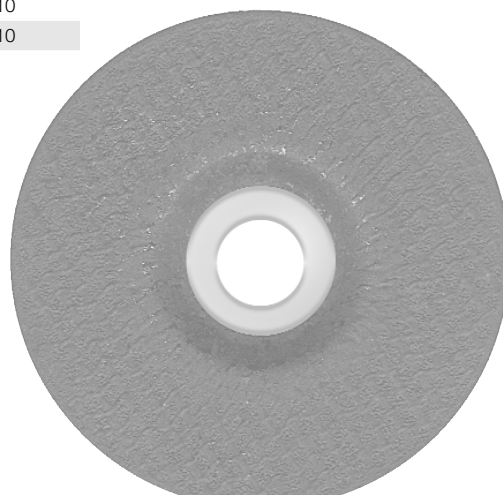
## Small Grinders - continued

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16554	6 x 1/4 x 7/8	A 24 N	Steel	10,200	25
16319	6 x 1/4 x 7/8	A 24 R	Steel	10,200	25
16604	6 x 1/4 x 7/8	A 30 O	Stainless Steel	10,200	25
16787	6 x 1/4 x 7/8	ZA 24 T	Steel / Stainless Steel	10,200	25
16754	6 x 1/4 x 7/8	A 36 M	Aluminum	10,200	25
16654	6 x 1/4 x 7/8	C 24 N	Masonry / Non-Ferrous	10,200	25
55554	6 x 1/4 x 5/8-11	A 24 N	Steel	10,200	25
55319	6 x 1/4 x 5/8-11	A 24 R	Steel	10,200	25
55604	6 x 1/4 x 5/8-11	A 30 O	Stainless Steel	10,200	25
55787	6 x 1/4 x 5/8-11	ZA 24 T	Steel / Stainless Steel	10,200	25



## Large Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16560	7 x 1/4 x 7/8	A 24 N	Steel	8,500	10
16782	7 x 1/4 x 7/8	A 24 R	Steel	8,500	10
16277	7 x 1/4 x 7/8	A 24 T	Steel	8,500	10
16610	7 x 1/4 x 7/8	A 36 O	Stainless Steel	8,500	10
16788	7 x 1/4 x 7/8	ZA 24 T	Steel / Stainless Steel	8,500	10
16760	7 x 1/4 x 7/8	A 36 M	Aluminum	8,500	10
16660	7 x 1/4 x 7/8	C 24 N	Masonry / Non-Ferrous	8,500	10
55560	7 x 1/4 x 5/8-11	A 24 N	Steel	8,500	10
55782	7 x 1/4 x 5/8-11	A 24 R	Steel	8,500	10
55277	7 x 1/4 x 5/8-11	A 24 T	Steel	8,500	10
55610	7 x 1/4 x 5/8-11	A 36 O	Stainless Steel	8,500	10
55788	7 x 1/4 x 5/8-11	ZA 24 T	Steel / Stainless Steel	8,500	10
55760	7 x 1/4 x 5/8-11	A 36 M	Aluminum	8,500	10
55660	7 x 1/4 x 5/8-11	C 24 N	Masonry / Non-Ferrous	8,500	10
16572	9 x 1/4 x 7/8	A 24 N	Steel	6,600	10
16784	9 x 1/4 x 7/8	A 24 R	Steel	6,600	10
16279	9 x 1/4 x 7/8	A 24 T	Steel	6,600	10
16622	9 x 1/4 x 7/8	A 36 O	Stainless Steel	6,600	10
16789	9 x 1/4 x 7/8	ZA 24 T	Steel / Stainless Steel	6,600	10
16763	9 x 1/4 x 7/8	A 36 M	Aluminum	6,600	10
16672	9 x 1/4 x 7/8	C 24 N	Masonry / Non-Ferrous	6,600	10
55572	9 x 1/4 x 5/8-11	A 24 N	Steel	6,600	10
55784	9 x 1/4 x 5/8-11	A 24 R	Steel	6,600	10
55279	9 x 1/4 x 5/8-11	A 24 T	Steel	6,600	10
55622	9 x 1/4 x 5/8-11	A 36 O	Stainless Steel	6,600	10
55789	9 x 1/4 x 5/8-11	ZA 24 T	Steel / Stainless Steel	6,600	10
55763	9 x 1/4 x 5/8-11	A 36 M	Aluminum	6,600	10
55672	9 x 1/4 x 5/8-11	C 24 N	Masonry / Non-Ferrous	6,600	10



# Type 27 Dual Grit Grinding Wheels



## Spec.



A 24/60 R - - Aluminum oxide - Dual grit wheel designed for use at shallow work angles eliminating back chipping. Good stock removal. Good wheel life.

## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16772	4-1/2 x 1/4 x 7/8	A 24/60 R	Steel / Stainless Steel	13,300	25
55772	4-1/2 x 1/4 x 5/8-11	A 24/60 R	Steel / Stainless Steel	13,300	25

## Large Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16775	7 x 1/4 x 7/8	A 24/60 R	Steel / Stainless Steel	8,500	10
55775	7 x 1/4 x 5/8-11	A 24/60 R	Steel / Stainless Steel	8,500	10
16776	9 x 1/4 x 7/8	A 24/60 R	Steel / Stainless Steel	6,600	10
55776	9 x 1/4 x 5/8-11	A 24/60 R	Steel / Stainless Steel	6,600	10



# Type 28 Depressed Center Grinding Wheels

## Spec.



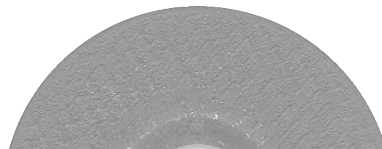
A 24 R - - - Aluminum oxide general purpose wheel for heavier working conditions for steel and other ferrous metals. Good stock removal. Longer wheel life.

ZA 24 T - - - Zirconia alumina wheels for steel and stainless steel applications. Very aggressive stock removal. Extremely long wheel life.



## Large Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16278	7 x 1/4 x 7/8	A 24 R	Steel / Stainless Steel	8,500	10
55278	7 x 1/4 x 5/8-11	A 24 R	Steel / Stainless Steel	8,500	10
16779	7 x 1/4 x 7/8	ZA 24 T	Steel / Stainless Steel	8,500	10
55779	7 x 1/4 x 5/8 -11	ZA 24 T	Steel / Stainless Steel	8,500	10
55780	9 x 1/4 x 5/8-11	A 24 R	Steel / Stainless Steel	6,600	10
55781	9 x 1/4 x 5/8-11	ZA 24 T	Steel / Stainless Steel	6,600	10



# Type 27 Pipeline Grinding/Notching/ Cutting Wheels



## Spec.



A 24 T - - - Aluminum oxide general purpose wheel for steel and other ferrous metals. Extremely long wheel life.

ZA 24 T - - - Zirconia alumina wheels for steel and stainless steel applications. Very aggressive stock removal. Extremely long wheel life.



## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16793	4 x 1/8 x 3/8	ZA 24 T	Steel / Stainless Steel	15,300	25
16281	4-1/2 x 1/8 x 7/8	A 24 T	Steel / Stainless Steel	13,300	25
16792	4-1/2 x 1/8 x 7/8	ZA 24 T	Steel / Stainless Steel	13,300	25
55281	4-1/2 x 1/8 x 5/8-11	A 24 T	Steel / Stainless Steel	13,300	25
55792	4-1/2 x 1/8 x 5/8-11	ZA 24 T	Steel / Stainless Steel	13,300	25
16794	6 x 1/8 x 7/8	ZA 24 T	Steel / Stainless Steel	10,200	25
55794	6 x 1/8 x 5/8-11	ZA 24 T	Steel / Stainless Steel	10,200	25



## Large Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16282	7 x 1/8 x 7/8	A 24 T	Steel / Stainless Steel	8,500	10
16795	7 x 1/8 x 7/8	ZA 24 T	Steel / Stainless Steel	8,500	10
55282	7 x 1/8 x 5/8-11	A 24 T	Steel / Stainless Steel	8,500	10
55795	7 x 1/8 x 5/8-11	ZA 24 T	Steel / Stainless Steel	8,500	10
16284	9 x 1/8 x 7/8	A 24 T	Steel / Stainless Steel	6,600	10
16796	9 x 1/8 x 7/8	ZA 24 T	Steel / Stainless Steel	6,600	10
55284	9 x 1/8 x 5/8-11	A 24 T	Steel / Stainless Steel	6,600	10
55796	9 x 1/8 x 5/8-11	ZA 24 T	Steel / Stainless Steel	6,600	10

# Type 29 “Z-Plus” Wheels



## Spec.

The "Z Plus" wheel is a semi-flexible grinding and blending wheel for right angle grinders. It provides excellent grinding and finishing capabilities in one wheel. It flexes to follow contour surfaces and removes material smoothly with no gouging or loading. For use on all ferrous metals, non-ferrous metals, and plastics. Choose A24 or A36 for faster stock removal and a smooth finish. Choose A60 for good stock removal and an even smoother finish.

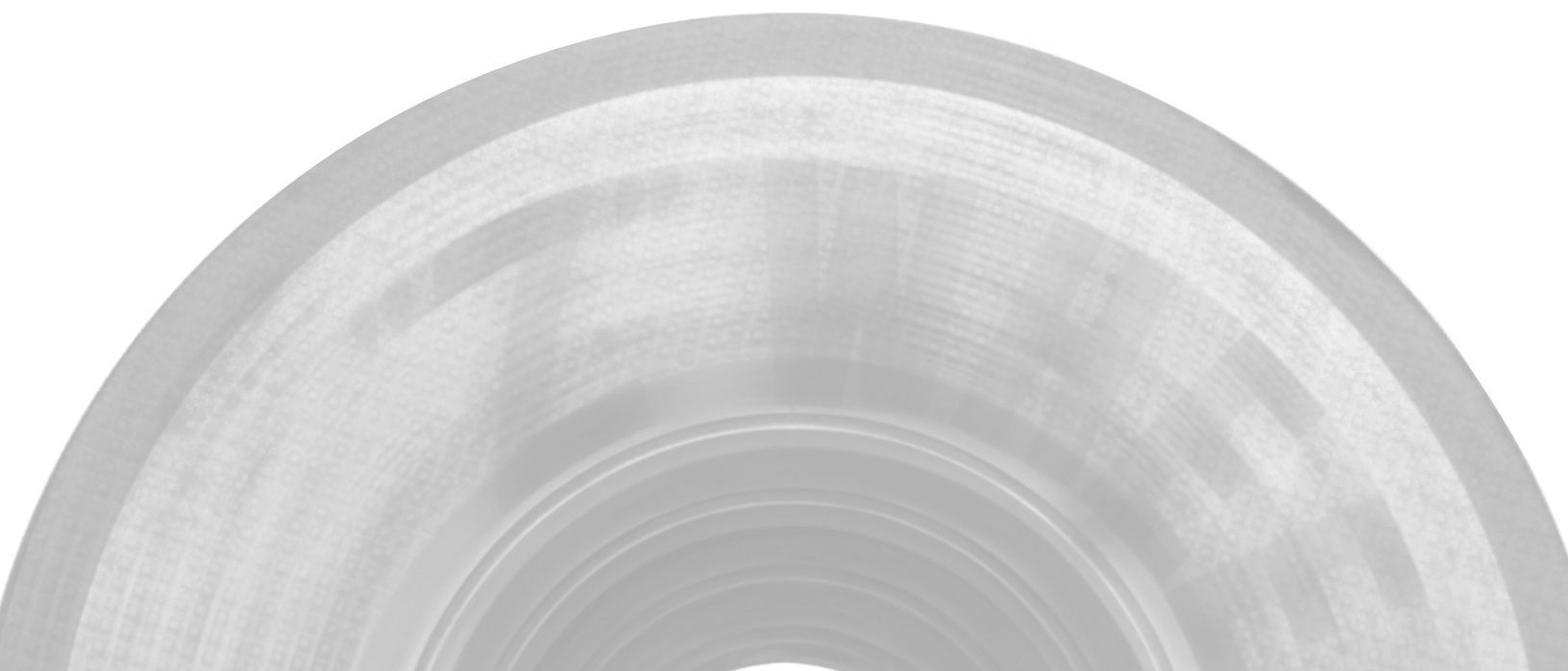
## Small Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55180	4-1/2 x 5/32 x 7/8	A 24	Steel / Aluminum / Plastic	13,280	25
55181	4-1/2 x 5/32 x 7/8	A 36	Steel / Aluminum / Plastic	13,280	25
55182	4-1/2 x 5/32 x 7/8	A 60	Steel / Aluminum / Plastic	13,280	25
55187	4-1/2 x 5/32 x 5/8-11	A 36	Steel / Aluminum / Plastic	13,280	25
55188	4-1/2 x 5/32 x 5/8-11	A 60	Steel / Aluminum / Plastic	13,280	25



## Large Grinders

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55183	7 x 5/32 x 7/8	A 24	Steel / Aluminum / Plastic	8,600	10
55184	7 x 5/32 x 7/8	A 36	Steel / Aluminum / Plastic	8,600	10
55185	7 x 5/32 x 7/8	A 60	Steel / Aluminum / Plastic	8,600	10
55190	7 x 5/32 x 5/8-11	A 36	Steel / Aluminum / Plastic	8,600	10
55191	7 x 5/32 x 5/8-11	A 60	Steel / Aluminum / Plastic	8,600	10



## Type 6 Cup Wheels - Small Grinders

### Spec.



- A 80 M - - - Aluminum oxide general purpose wheel for grinding steel and other ferrous metals. Good cutting rate and wheel life.
- C 30 N - - - Silicon carbide general purpose wheel for grinding stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. Good stock removal. Good wheel life.



Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
30727	3-1/8 x 7/8 x 7/8	A 80 M	Steel / Ferrous Metals	10,750	1
30728	3-1/8 x 7/8 x 7/8	C 30 N	Masonry / Non-Ferrous	10,750	1

(See page 34 for wheel guard)



## Type 11 Cup Wheels with Steel Backs - Large Grinders

### Spec.



- A 16 Q - - - Aluminum oxide general purpose wheel for grinding steel and other ferrous metals. High stock removal. Good wheel life.
- C 16 N - - - Silicon carbide general purpose wheel for grinding stone, concrete, ductile iron, masonry materials, non-ferrous metals (brass, bronze, etc.), and cast iron. High stock removal. Good wheel life.



Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
16341 SB	4 x 3 x 2 x 5/8-11	A 16 Q	Steel / Ferrous Metals	9,000	10
16342 SB	4 x 3 x 2 x 5/8-11	C 16 N	Masonry / Non-Ferrous	9,000	10
16343 SB	5 x 4 x 2 x 5/8-11	A 16 Q	Steel / Ferrous Metals	7,200	10
16344 SB	5 x 4 x 2 x 5/8-11	C 16 N	Masonry / Non-Ferrous	7,200	10
16345 SB	6 x 4-3/4 x 2 x 5/8-11	A 16 Q	Steel / Ferrous Metals	6,000	10
16346 SB	6 x 4-3/4 x 2 x 5/8-11	C 16 N	Masonry / Non-Ferrous	6,000	10

(See page 34 for wheel guards and backing flange)



# Type 1 Vitrified Wheels - Bench Grinders



## Spec.

Aluminum Oxide - Excellent general purpose wheel for routine use on bench grinders. Performs very well for every day general shop use on various steels.

## Aluminium Oxide

Order #	Size	Spec.	Max. RPM	Pcs/Pkg
55401	6 x 3/4 x 1	A 36	4,140	1
55402	6 x 3/4 x 1	A 60	4,140	1
55403	6 x 3/4 x 1	A 80	4,140	1
55405	6 x 1 x 1	A 24	4,140	1
55406	6 x 1 x 1	A 36	4,140	1
55407	6 x 1 x 1	A 60	4,140	1
55408	6 x 1 x 1	A 80	4,140	1
55410	7 x 1 x 1	A 24	3,600	1
55411	7 x 1 x 1	A 36	3,600	1
55412	7 x 1 x 1	A 60	3,600	1
55413	7 x 1 x 1	A 80	3,600	1
55414	8 x 1 x 1-1/4	A 24	3,600	1
55415	8 x 1 x 1-1/4	A 36	3,600	1
55416	8 x 1 x 1-1/4	A 60	3,600	1
55417	8 x 1 x 1-1/4	A 80	3,600	1
55419	10 x 1 x 1-1/4	A 24	2,485	1
55420	10 x 1 x 1-1/4	A 36	2,485	1
55421	10 x 1 x 1-1/4	A 60	2,485	1
55422	10 x 1-1/2 x 1-1/4	A 24	2,485	1
55423	10 x 1-1/2 x 1-1/4	A 36	2,485	1
55424	10 x 1-1/2 x 1-1/4	A 60	2,485	1
55425	12 x 2 x 1-1/2	A 24	2,070	1
55426	12 x 2 x 1-1/2	A 36	2,070	1
55427	12 x 2 x 1-1/2	A 60	2,070	1
55428	14 x 2 x 1-1/2	A 24	1,775	1
55429	14 x 2 x 1-1/2	A 36	1,775	1
55430	14 x 2 x 1-1/2	A 60	1,775	1

## Bushing Selector

	Wheel Dia.	Arbor Hole	Bushing Size				
			1/2"	5/8"	3/4"	1"	1-1/4"
Vitrified bench grinding wheels come with nested bushings. Check the chart at right for bushing sizes.	6"	1"	■	■	■		
	7"	1"		■	■		
	8"	1-1/4"		■	■	■	
	10"	1-1/4"			■	■	■
	12"	1-1/2"					■
Replacement bushings for bench wheels	Item #55165	1"	■	■	■		
	#55166	1-1/4"	■	■	■	■	
	#55167	1-1/2"					■

## Spec.

Green Silicon Carbide - Very sharp cool cutting wheel. Excellent for sharpening carbide tipped bits as well as working with non-ferrous materials such as aluminum, glass, ceramic and cast irons.

## Green Silicon Carbide

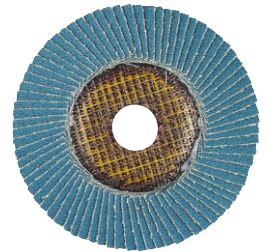
Order #	Size	Spec.	Max. RPM	Pcs/Pkg
55431	6 x 3/4 x 1	C 60	4,140	1
55432	6 x 3/4 x 1	C 80	4,140	1
55433	6 x 3/4 x 1	C 120	4,140	1
55434	6 x 1 x 1	C 60	4,140	1
55435	6 x 1 x 1	C 80	4,140	1
55436	6 x 1 x 1	C 120	4,140	1
55437	7 x 1 x 1	C 60	3,600	1
55438	7 x 1 x 1	C 80	3,600	1
55439	7 x 1 x 1	C 120	3,600	1
55440	8 x 1 x 1-1/4	C 60	3,600	1
55441	8 x 1 x 1-1/4	C 80	3,600	1
55442	8 x 1 x 1-1/4	C 120	3,600	1
55443	10 x 1 x 1-1/4	C 60	2,485	1
55444	10 x 1 x 1-1/4	C 80	2,485	1
55445	10 x 1 x 1-1/4	C 120	2,485	1



## Type 27 Zirconia Alumina Flap Discs

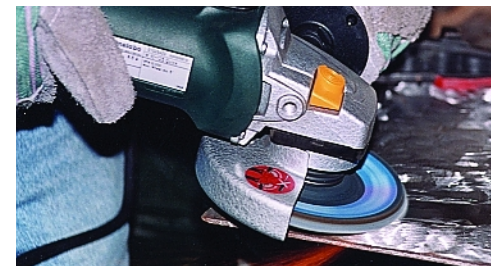
### Spec.

Zirconia alumina grain delivers extremely long life with very aggressive stock removal and excellent blending capabilities.



### Type 27 - Standard Style

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
56375	4-1/2 x 7/8	ZA 36	Steel / Stainless Steel	13,300	10
24246	4-1/2 x 7/8	ZA 40	Steel / Stainless Steel	13,300	10
24247	4-1/2 x 7/8	ZA 60	Steel / Stainless Steel	13,300	10
24248	4-1/2 x 7/8	ZA 80	Steel / Stainless Steel	13,300	10
56425	4-1/2 x 7/8	ZA 120	Steel / Stainless Steel	13,300	10
56376	4-1/2 x 5/8-11	ZA 40	Steel / Stainless Steel	13,300	10
56377	4-1/2 x 5/8-11	ZA 60	Steel / Stainless Steel	13,300	10
56378	4-1/2 x 5/8-11	ZA 80	Steel / Stainless Steel	13,300	10
56426	4-1/2 x 5/8-11	ZA 120	Steel / Stainless Steel	13,300	10
56379	7 x 7/8	ZA 36	Steel / Stainless Steel	8,600	10
24356	7 x 7/8	ZA 40	Steel / Stainless Steel	8,600	10
24358	7 x 7/8	ZA 60	Steel / Stainless Steel	8,600	10
24359	7 x 7/8	ZA 80	Steel / Stainless Steel	8,600	10
56380	7 x 5/8-11	ZA 40	Steel / Stainless Steel	8,600	10
56381	7 x 5/8-11	ZA 60	Steel / Stainless Steel	8,600	10
56382	7 x 5/8-11	ZA 80	Steel / Stainless Steel	8,600	10



# Type 29 Zirconia Alumina Flap Discs

## Spec.



Zirconia alumina grain delivers extremely long life with very aggressive stock removal and excellent blending capabilities.

## Type 29 - Standard Style

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
56383	4-1/2 x 7/8	ZA 36	Steel / Stainless Steel	13,300	10
24241	4-1/2 x 7/8	ZA 40	Steel / Stainless Steel	13,300	10
24243	4-1/2 x 7/8	ZA 60	Steel / Stainless Steel	13,300	10
24244	4-1/2 x 7/8	ZA 80	Steel / Stainless Steel	13,300	10
56427	4-1/2 x 7/8	ZA 120	Steel / Stainless Steel	13,300	10
56384	4-1/2 x 5/8-11	ZA 40	Steel / Stainless Steel	13,300	10
56385	4-1/2 x 5/8-11	ZA 60	Steel / Stainless Steel	13,300	10
56386	4-1/2 x 5/8-11	ZA 80	Steel / Stainless Steel	13,300	10
56428	4-1/2 x 5/8-11	ZA 120	Steel / Stainless Steel	13,300	10
56430	6 x 7/8	ZA 40	Steel / Stainless Steel	10,200	10
56431	6 x 7/8	ZA 60	Steel / Stainless Steel	10,200	10
56432	6 x 7/8	ZA 80	Steel / Stainless Steel	10,200	10
56433	6 x 7/8	ZA 120	Steel / Stainless Steel	10,200	10
56434	6 x 5/8-11	ZA 40	Steel / Stainless Steel	10,200	10
56435	6 x 5/8-11	ZA 60	Steel / Stainless Steel	10,200	10
56436	6 x 5/8-11	ZA 80	Steel / Stainless Steel	10,200	10
56437	6 x 5/8-11	ZA 120	Steel / Stainless Steel	10,200	10
56387	7 x 7/8	ZA 36	Steel / Stainless Steel	8,600	10
24256	7 x 7/8	ZA 40	Steel / Stainless Steel	8,600	10
24258	7 x 7/8	ZA 60	Steel / Stainless Steel	8,600	10
24259	7 x 7/8	ZA 80	Steel / Stainless Steel	8,600	10
56389	7 x 5/8-11	ZA 40	Steel / Stainless Steel	8,600	10
56390	7 x 5/8-11	ZA 60	Steel / Stainless Steel	8,600	10
56391	7 x 5/8-11	ZA 80	Steel / Stainless Steel	8,600	10

## Type 29 - High Density Style

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
56392	4-1/2 x 7/8	ZA 40	Steel / Stainless Steel	13,300	10
56393	4-1/2 x 7/8	ZA 60	Steel / Stainless Steel	13,300	10
56394	4-1/2 x 7/8	ZA 80	Steel / Stainless Steel	13,300	10
56429	4-1/2 x 7/8	ZA 120	Steel / Stainless Steel	13,300	10
56395	7 x 7/8	ZA 40	Steel / Stainless Steel	8,600	10
56396	7 x 7/8	ZA 60	Steel / Stainless Steel	8,600	10
56397	7 x 7/8	ZA 80	Steel / Stainless Steel	8,600	10

# Flap Wheels - Mounted Style - 1/4 Shank



## Spec.

Standard - Aluminum oxide on resin fiber backing provides excellent stock removal on contoured steel shapes and in confined areas.

## Standard

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55368	1 x 1	A 60	Steel / Stainless Steel	30,000	10
55369	1 x 1	A 80	Steel / Stainless Steel	30,000	10
55370	1 x 1	A 120	Steel / Stainless Steel	30,000	10
55371	1-1/2 x 1	A 60	Steel / Stainless Steel	25,000	10
55372	1-1/2 x 1	A 80	Steel / Stainless Steel	25,000	10
55373	1-1/2 x 1	A 120	Steel / Stainless Steel	25,000	10
55374	2 x 1	A 60	Steel / Stainless Steel	25,000	10
55375	2 x 1	A 80	Steel / Stainless Steel	25,000	10
55376	2 x 1	A 120	Steel / Stainless Steel	25,000	10
55377	3 x 1	A 60	Steel / Stainless Steel	20,000	10
55378	3 x 1	A 80	Steel / Stainless Steel	20,000	10
55379	3 x 1	A 120	Steel / Stainless Steel	20,000	10

## Spec.

Interleaved - Aluminum oxide flaps are interleaved with strips of non-woven abrasive material to provide a brushed satin finish.

## Interleaved

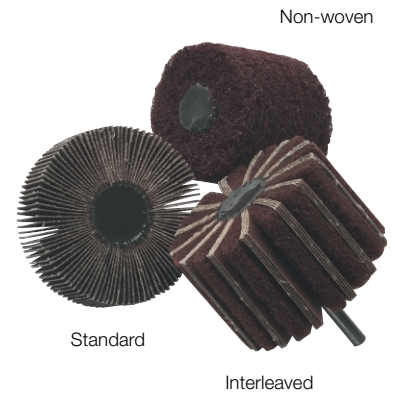
Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55390	3 x 1	A 80	Steel / Stainless Steel	18,000	5
55391	3 x 1	A 120	Steel / Stainless Steel	18,000	5
55392	3 x 1	A 180	Steel / Stainless Steel	18,000	5
55393	3 x 2	A 80	Steel / Stainless Steel	6,000	5
55394	3 x 2	A 120	Steel / Stainless Steel	6,000	5
55395	3 x 2	A 180	Steel / Stainless Steel	6,000	5

## Spec.

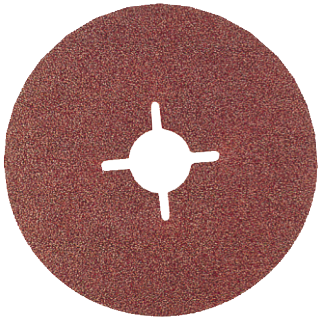
Non-Woven - Aluminum oxide is bonded to a non-woven fabric to provide a excellent wheel for general deburring and contour surface finishing.

## Non-Woven / Blending

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
55380	2-3/8 x 1	Fine	Stainless Steel	10,000	5
55381	2-3/8 x 1	Medium	Stainless Steel	10,000	5
55382	2-3/8 x 2	Fine	Stainless Steel	8,000	5
55383	2-3/8 x 2	Medium	Stainless Steel	8,000	5
55384	3 x 1	Fine	Stainless Steel	8,000	5
55385	3 x 1	Medium	Stainless Steel	8,000	5
55386	3 x 2	Fine	Stainless Steel	6,000	5
55387	3 x 2	Medium	Stainless Steel	6,000	5



# Resin Fiber Abrasive Discs-Closed Coat



Slotted

## Spec.

Aluminum Oxide (A) - General purpose disc for grinding steel and other ferrous metals. Good cutting rate and excellent life.

Zirconia Alumina (ZA) - Very aggressive stock removal on steel, stainless steel and other metal applications, extremely long life.

## Small Grinders

Order #	Size	Spec.	Slotted	Max. RPM	Pcs/Pkg
24135	4-1/2 x 7/8	A 16	Yes	13,300	25
24136	4-1/2 x 7/8	A 24	Yes	13,300	25
24137	4-1/2 x 7/8	A 40	Yes	13,300	25
24144	4-1/2 x 7/8	A 50	Yes	13,300	25
24138	4-1/2 x 7/8	A 60	Yes	13,300	25
24139	4-1/2 x 7/8	A 80	Yes	13,300	25
24140	4-1/2 x 7/8	A 100	Yes	13,300	25
24141	4-1/2 x 7/8	A 120	Yes	13,300	25
24142	4-1/2 x 7/8	A 150	Yes	13,300	25
24143	4-1/2 x 7/8	A 180	Yes	13,300	25
56350	4-1/2 x 7/8	ZA 24	No	13,300	25
56351	4-1/2 x 7/8	ZA 36	No	13,300	25
56352	4-1/2 x 7/8	ZA 50	No	13,300	25
56353	4-1/2 x 7/8	ZA 60	No	13,300	25
56354	4-1/2 x 7/8	ZA 80	No	13,300	25
24223	5 x 7/8	A 16	Yes	12,200	25
24218	5 x 7/8	A 24	Yes	12,200	25
24219	5 x 7/8	A 40	Yes	12,200	25
24217	5 x 7/8	A 50	Yes	12,200	25
24220	5 x 7/8	A 60	Yes	12,200	25
24221	5 x 7/8	A 80	Yes	12,200	25
24222	5 x 7/8	A 100	Yes	12,200	25
24224	5 x 7/8	A 120	Yes	12,200	25
24225	5 x 7/8	A 150	Yes	12,200	25
24226	5 x 7/8	A 180	Yes	12,200	25
56355	5 x 7/8	ZA 24	No	12,200	25
56356	5 x 7/8	ZA 36	No	12,200	25
56357	5 x 7/8	ZA 50	No	12,200	25
56358	5 x 7/8	ZA 60	No	12,200	25
56359	5 x 7/8	ZA 80	No	12,200	25



# Resin Fiber Abrasive Discs-Closed Coat

- continued



## Spec.

Aluminum Oxide (A) - General purpose disc for grinding steel and other ferrous metals. Good cutting rate and excellent life.

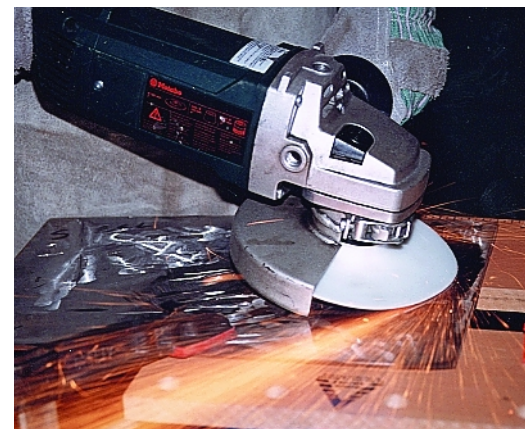
Zirconia Alumina (ZA) - Very aggressive stock removal on steel, stainless steel and other metal applications, extremely long life.



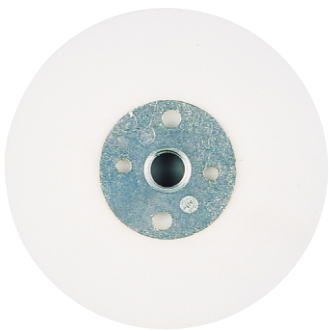
Non-Slotted

## Large Grinders

Order #	Size	Spec.	Slotted	Max. RPM	Pcs/Pkg
24103	7 x 7/8	A 24	No	10,000	25
24104	7 x 7/8	A 40	No	10,000	25
24102	7 x 7/8	A 50	No	10,000	25
24105	7 x 7/8	A 60	No	10,000	25
24106	7 x 7/8	A 80	No	10,000	25
24107	7 x 7/8	A 100	No	10,000	25
56360	7 x 7/8	ZA 24	No	10,000	25
56361	7 x 7/8	ZA 36	No	10,000	25
56362	7 x 7/8	ZA 50	No	10,000	25
56363	7 x 7/8	ZA 60	No	10,000	25
56364	7 x 7/8	ZA 80	No	10,000	25



## Backing Pads - For Resin Fiber Abrasive Discs



### Replacement Backing Pad Nuts

Cat.No.	Nut	Pad Diam.
34113006	M14	4-1/2" & 5"
34113021	5/8"-11	4-1/2" & 5"
34113016	M14	7"
34113017	5/8"-11	7" & 9"

Cat.No.	Diam.	Backing Nut	Use On	Max RPM
23279	4-1/2"	M14	Metabo 4-1/2" grinders and other small grinders with M14 spindle	13,000
23283	4-1/2"	5/8"-11	Metabo 4-1/2" grinders and other small grinders with 5/8"-11 spindle	13,000
23278	5"	M14	Metabo 5" grinders and other small grinders with M14 spindle	12,000
23284	5"	5/8"-11	Metabo 5" grinders and other small grinders with 5/8"-11 spindle	12,000
23281	7"	5/8"-11	Metabo 6" and 7" or 9" sander/grinders with 5/8"-11 spindle	8,500
23282	9"	5/8"-11	Metabo and other 9" sander/grinders with 5/8"-11 spindle	6,600

## Pressure Sensitive Abrasive Discs (PSA) -Closed Coat



### Aluminum Oxide

Order #	Size	Spec.	Application	Pcs/Pkg
56400	5" diameter	A 80	Steel / Stainless Steel	50
56401	5" diameter	A 100	Steel / Stainless Steel	50
56402	5" diameter	A 120	Steel / Stainless Steel	50
56403	5" diameter	A 180	Steel / Stainless Steel	50
56404	5" diameter	A 220	Steel / Stainless Steel	50
56405	5" diameter	A 240	Steel / Stainless Steel	50
56406	5" diameter	A 320	Steel / Stainless Steel	50
56407	5" diameter	A 400	Steel / Stainless Steel	50
56408	6" diameter	A 80	Steel / Stainless Steel	50
56409	6" diameter	A 100	Steel / Stainless Steel	50
56410	6" diameter	A 120	Steel / Stainless Steel	50
56411	6" diameter	A 180	Steel / Stainless Steel	50
56412	6" diameter	A 220	Steel / Stainless Steel	50
56413	6" diameter	A 240	Steel / Stainless Steel	50
56414	6" diameter	A 320	Steel / Stainless Steel	50
56415	6" diameter	A 400	Steel / Stainless Steel	50

## Small Air and Electric Grinders

Order #	Dia.	Thread	Wire	Max RPM	Use on	Pkg.
23796	2-3/4"	M 14	0.014 carbon stl knotted	12,000	4"-6" grinders	Boxed
23804	2-3/4"	5/8"-11	0.020 carbon stl knotted	12,000	4"-6" grinders	Boxed
55200	2-3/4"	5/8"-11	0.020 carbon stl knotted	14,000	4"-6" grinders	Carded
23801	2-3/4"	M 14	0.014 stainless stl knotted	12,000	4"-6" grinders	Boxed
23805	2-3/4"	5/8"-11	0.014 stainless stl knotted	12,000	4"-6" grinders	Boxed
55201	2-3/4"	5/8"-11	0.020 stainless stl knotted	14,000	4"-6" grinders	Carded
55206	2-3/4"	M 14	0.012 carbon stl crimped	12,500	4"-6" grinders	Carded
55207	2-3/4"	5/8"-11	0.012 carbon stl crimped	12,500	4"-6" grinders	Carded



## Large Air and Electric Grinders

Order #	Dia.	Thread	Wire	Max RPM	Use on	Pkg.
55209	4"	5/8"-11	0.014 carbon stl crimped	8,500	7"-9" grinders	Boxed
23765	4"	5/8"-11	0.023 carbon stl knotted	8,500	7"-9" grinders	Boxed
55211	6"	5/8"-11	0.014 carbon stl crimped	6,600	7"-9" grinders	Boxed
55210	6"	5/8"-11	0.023 carbon stl knotted	6,600	7"-9" grinders	Boxed

# Wire Wheel Brushes



## Small Air and Electric Grinders

Order #	Dia. x Face	Thread	Wire	Max RPM	Use on	Pkg.
55132B	4" x 3/16"	M 14	0.020 carbon stl knotted	20,000	4"-6" grinders	Carded
55137	4" x 3/16"	5/8"-11	0.020 carbon stl knotted	20,000	4"-6" grinders	Carded
55135	4" x 3/16"	M 14	0.020 stainless stl knotted	20,000	4"-6" grinders	Carded
55138	4" x 3/16"	5/8"-11	0.020 stainless stl knotted	20,000	4"-6" grinders	Carded
55132A	4" x 3/8"	M 14	0.020 carbon stl knotted	20,000	4"-6" grinders	Carded
55136	4" x 3/8"	5/8"-11	0.020 carbon stl knotted	20,000	4"-6" grinders	Carded
55215	4" x 1/2"	5/8"-11	0.014 carbon stl knotted	20,000	4"-6" grinders	Carded
55220	4" x 3/8"	M 14	0.020 stainless stl knotted	20,000	4"-6" grinders	Carded
55221	4" x 3/8"	5/8"-11	0.020 stainless stl knotted	20,000	4"-6" grinders	Carded
55226	4" x 1/2"	M 14	0.020 carbon stl crimped	12,500	4"-6" grinders	Carded
55227	4" x 1/2"	5/8"-11	0.020 carbon stl crimped	12,500	4"-6" grinders	Carded

## Large Air and Electric Grinders

Order #	Dia. x Face	Thread	Wire	Max RPM	Use on	Pkg.
55133	6-7/8" x 3/16"	5/8"-11	0.020 carbon stl knotted	9,000	7"-9" grinders	Boxed
55134	6" x 5/16"	5/8"-11	0.023 carbon stl knotted	9,000	7"-9" grinders	Carded

## Bench Grinder

Order #	Dia.	Arbor	Wire	Max RPM	Pkg.
55216	6" x 3/4"	5/8"-1/2"	0.014 carbon stl crimped	6,000	Carded
55217	8" x 3/4"	5/8"	0.014 carbon stl crimped	6,000	Carded

## Wire Brush Adaptors

56300 M10 x 1.25 x 5/8"-11 adaptor

56301 M10 x 1.50 x 5/8"-11 adaptor

NOTE: Allows use of 5/8"-11 thread brushes on grinders with M10 thread spindles.

SAFETY NOTE: Never use wheels or other accessories rated lower than the RPM of the grinder. Eye protection is required.



## Wire End Brushes-1/4" Stem

### For Drills, Hammer Drills and Die Grinders

Order #	Dia.	Wire	Max RPM	Pkg.
55212	1"	0.020 carbon stl crimped	22,000	Carded
55213	1 1/8"	0.020 carbon stl knotted	22,000	Carded



## Crimped Wheel-1/4" Stem

### For Drills and Hammer Drills

Order #	Dia.	Wire	Max RPM	Pkg.
55214	3"	0.014 carbon stl crimped	20,000	Carded



## Diamond Wheels - Wet or Dry Use

### Spec.

GT 300 - - - Continuous rim diamond wheel for wet or dry cutting of most types of masonry, stone, brick or marble materials. Provides a smooth clean cutting action.

### Turbo

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
56600	4" x .080" x 7/8" - 5/8"	GT300	Concrete, Pavers & Brick	15,300	1
56601	4-1/2" x .080" x 7/8" - 5/8"	GT300	Concrete, Pavers & Brick	13,300	1
56602	5" x .080" x 7/8" - 5/8"	GT300	Concrete, Pavers & Brick	12,200	1
56603	6" x .090" x 7/8" - 5/8"	GT300	Concrete, Pavers & Brick	10,200	1
56604	7" x .080" x 5/8" Dm	GT300	Concrete, Pavers & Brick	8,500	1
56605	8" x .080" x 5/8" Dm	GT300	Concrete, Pavers & Brick	7,600	1

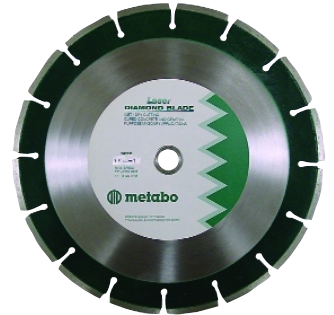


### Spec.

GS 300 - - - General purpose for rapid wet or dry cutting in all types of masonry materials. Cool cutting with very long life.

### Segmented

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
56612	4-1/2" x .080 x 7/8"-5/8"	GS300	Concrete, Pavers & Brick	13,300	1
56613	7" x .080 x 7/8"-5/8"	GS300	Concrete, Pavers & Brick	8,500	1

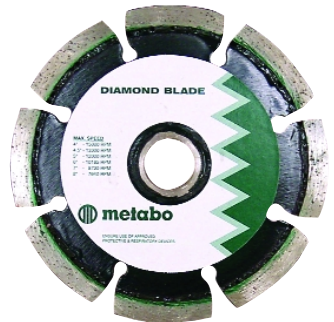


### Spec.

GTP 300 - - - Specially formulated for fast efficient removal of mortar joints in brick, block or stone. Provides rapid crack chasing capability.

### Tuckpoint/Crack Chaser

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
56610	4" x .250" x 7/8"-5/8"	GTP300	Removal of mortar joints	15,300	1



### Spec.

GPC 300 - - - Designed for aggressive surface finishing on all cured concrete surfaces. Use wet or dry.

### Cup

Order #	Size	Spec.	Application	Max. RPM	Pcs/Pkg
56611	4" single row x 7/8"-5/8"	GPC300	Cured concrete	15,000	1

