

# BENCH & PEDESTAL WHEELS

## Bench & Pedestal Wheels 6"-10" Diameter - Type 1 Carton Packs

### Description and Applications

- Straight vitrified wheels used for off-hand tool sharpening and grinding. Common settings for bench and pedestal grinders are in maintenance departments, tool & die shops and metal fabrication shops.
- A - Aluminum Oxide for general purpose off-hand work.
- GC - Green Silicon Carbide for non-ferrous metals, tungsten carbide for sharpening carbide tools in tool rooms.

Type 1



**H\*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors**  
**H: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors**

### 6 x 1/2 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Green Silicon Carbide:</b>			
35005	GC60-I-V	10	20
35006	GC80-I-V	10	20
35007	GC100-I-V	10	20

### 6 x 3/4 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35008	A24-Q-V	10	20
35009	A36-O-V	10	20
35010	A46-M-V	10	20
35011	A60-M-V	10	20
35012	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35013	GC60-I-V	10	20
35014	GC80-I-V	10	20
35015	GC100-I-V	10	20

### 6 x 1 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35017	A24-Q-V	10	20
35018	A36-O-V	10	20
35019	A46-M-V	10	20
35020	A60-M-V	10	20
35021	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35022	GC60-I-V	10	20
35023	GC80-I-V	10	20
35024	GC100-I-V	10	20

### 7 x 3/4 x 1 (H\*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Green Silicon Carbide:</b>			
35031	GC60-I-V	10	20
35032	GC80-I-V	10	20
35033	GC100-I-V	10	20

### 7 x 1 x 1 (H\*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35034	A24-Q-V	10	20
35035	A36-O-V	10	20
35036	A46-M-V	10	20
35037	A60-M-V	10	20
35038	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35039	GC60-I-V	10	20
35040	GC80-I-V	10	20
35041	GC100-I-V	10	20

### 8 x 3/4 x 1 (H\*) 3,600 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35044	A46-M-V	10	20

### 8 x 1 x 1 1/4 (H\*) 3,600 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35046	A24-Q-V	10	20
35047	A36-O-V	10	20
35048	A46-M-V	10	20
35049	A60-M-V	10	20
35050	A80-M-V	10	20
<b>Green Silicon Carbide:</b>			
35051	GC60-I-V	10	20
35052	GC80-I-V	10	20
35053	GC100-I-V	10	20

## Bench & Pedestal Wheels 6"-18" Diameter - Type 1 Single Packs

### Description and Applications

- A - Aluminum Oxide for general purpose off-hand work.
- GC - Green Silicon Carbide for non-ferrous metals, tungsten carbide for sharpening carbide tools in tool rooms.
- AZ - Premium Blue Aluminum Oxide for HSS over 55 RC and above, high carbon tool steels and woodworking applications. Engineered for free cutting action while pulling heat away from the part and into the matrix of the wheel.
- WA - White Aluminum Oxide highly friable grain for fast and cool cutting. Light grinding of all types of steel including tool and die steels; fast sharpening of all tools.



Type 1

### H\*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors

#### 6 x 1/2 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38003	A46-M-V	1	10
38004	A60-M-V	1	10
38005	A80-M-V	1	10
<b>Green Silicon Carbide:</b>			
38501	GC60-I-V	1	10
38502	GC80-I-V	1	10
38503	GC100-I-V	1	10

#### 6 x 3/4 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38006	A24-Q-V	1	10
38007	A36-O-V	1	10
38008	A46-M-V	1	10
38009	A60-M-V	1	10
38010	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38111	AZ36-K8-V3	1	10
38113	AZ60-K8-V3	1	10
38114	AZ80-K8-V3	1	10
38116	AZ120-K8-V3	1	10
<b>White Aluminum Oxide:</b>			
38613	WA60-K-V	1	10
38616	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38504	GC60-I-V	1	10
38505	GC80-I-V	1	10
38506	GC100-I-V	1	10

#### 6 x 1 x 1 (H\*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38011	A24-Q-V	1	10
38012	A36-O-V	1	10
38013	A46-M-V	1	10
38014	A60-M-V	1	10
38015	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38121	AZ36-K8-V32A	1	10
38123	AZ60-K8-V32A	1	10
38126	AZ120-K8-V32A	1	10
<b>White Aluminum Oxide:</b>			
38623	WA60-K-V	1	10
38626	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38507	GC60-I-V	1	10
38508	GC80-I-V	1	10
38509	GC100-I-V	1	10
38580	GC120-I-V	1	10

#### 7 x 3/4 x 1 (H\*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38562	A60-M-V	1	10
<b>Green Silicon Carbide:</b>			
38510	GC60-I-V	1	10
38511	GC80-I-V	1	10
38512	GC100-I-V	1	10

H\*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors  
 H: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors  
 H: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

**7 x 1 x 1 (H\*) 3,760 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38016	A24-Q-V	1	10
38017	A36-O-V	1	10
38018	A46-M-V	1	10
38019	A60-M-V	1	10
38020	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38161	AZ36-K8-V32A	1	10
38163	AZ60-K8-V32A	1	10
38164	AZ60-K8-V32A	1	10
38166	AZ120-K8-V32A	1	10
<b>White Aluminum Oxide:</b>			
38663	WA60-K-V	1	10
38666	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38513	GC60-I-V	1	10
38514	GC80-I-V	1	10
38515	GC100-I-V	1	10

**8 x 1 x 1 1/4 (H4) 3,600 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38021	A24-Q-V	1	10
38022	A36-O-V	1	10
38023	A46-M-V	1	10
38024	A60-M-V	1	10
38025	A80-M-V	1	10
<b>Premium Blue Aluminum Oxide:</b>			
38201	AZ36-K8-V32A	1	10
38203	AZ60-K8-V32A	1	10
38204	AZ60-K8-V32A	1	10
38206	AZ120-K8-V32A	1	10
<b>White Aluminum Oxide:</b>			
38703	WA60-K-V	1	10
38706	WA120-K-V	1	10
<b>Green Silicon Carbide:</b>			
38516	GC60-I-V	1	10
38517	GC80-I-V	1	10
38518	GC100-I-V	1	10

**10 x 1 x 1 1/4 (H2) 2,483 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38026	A24-Q-V	1	5
38027	A36-O-V	1	5
38028	A46-M-V	1	5
38029	A60-M-V	1	5
38030	A80-M-V	1	5
<b>Green Silicon Carbide:</b>			
38519	GC60-I-V	1	5
38520	GC80-I-V	1	5
38521	GC100-I-V	1	5

**10 x 1 1/2 x 1 1/4 (H2) 2,483 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38031	A24-Q-V	1	4
38032	A36-O-V	1	4
38033	A46-M-V	1	4
38034	A60-M-V	1	4
38035	A80-M-V	1	4
<b>Green Silicon Carbide:</b>			
38522	GC60-I-V	1	4
38523	GC80-I-V	1	4
38524	GC100-I-V	1	4

**12 x 1 x 1 1/4 (H2) 2,220 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38036	A24-Q-V	1	2
38038	A46-M-V	1	2
38039	A60-M-V	1	2
<b>Green Silicon Carbide:</b>			
38525	GC60-I-V	1	2

**12 x 1 1/2 x 1 1/4 (H2) 2,220 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38041	A24-Q-V	1	2
38042	A36-O-V	1	2
38043	A46-M-V	1	2
38044	A60-M-V	1	2
<b>Green Silicon Carbide:</b>			
38528	GC60-I-V	1	2
38529	GC80-I-V	1	2

**12 x 2 x 1 1/2 (H<sup>3</sup>) 2,220 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38046	A24-Q-V	1	3
38047	A36-O-V	1	3
38048	A46-M-V	1	3
38049	A60-M-V	1	3
38050	A80-M-V	1	3
<b>Green Silicon Carbide:</b>			
38531	GC60-I-V	1	3
38532	GC80-I-V	1	3
38533	GC100-I-V	1	3

**14 x 2 x 1 1/2 (H<sup>3</sup>) 1,773 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
38051	A24-Q-V	1	3
38052	A36-O-V	1	3
38053	A46-M-V	1	3
38054	A60-M-V	1	3
38055	A80-M-V	1	3
<b>Green Silicon Carbide:</b>			
38534	GC60-I-V	1	3
38535	GC80-I-V	1	3

**14 x 3 x 1 1/2-1 1/4 1,773 R.P.M.**

UPC#	SIZE	CARTON	UNIT
<b>Brown Aluminum Oxide:</b>			
35107	A24/30-Q-V	1	3
35108	A46/54-M-V	1	3

**16 x 2 x 1 1/2 1,550 R.P.M.**

UPC#	SIZE	UNIT
<b>Brown Aluminum Oxide:</b>		
35109	A24-Q-V	1
35110	A36-M-V	1

**18 x 3 x 1 1/2 1,485 R.P.M.**

UPC#	SIZE	UNIT
<b>Brown Aluminum Oxide:</b>		
35112	A24-Q-V	1
35113	A36-O-V	1
35114	A54-M-V	1

**Bench Wheel Bushings**

UPC#	SPEC.	UNIT
51000	1/2" Wide (Thick) 1"-1 1/2"	1
51001	3/4" Wide (Thick) 1"-1 1/2"	1
51002	1" Wide (Thick) 1"-1 1/2"	1
51003	1/2" Wide (Thick) 1 1/4"-1"	1
51004	3/4" Wide (Thick) 1 1/4"-1"	1
51005	1" Wide (Thick) 1 1/4"-1"	1
51006	1/2" Wide (Thick) 1 1/2"-1 1/4"	1
51007	3/4" Wide (Thick) 1 1/2"-1 1/4"	1
51008	1" Wide (Thick) 1 1/2"-1 1/4"	1



### **AS3 - Ceramic Aluminum Oxide**

- Engineered for fast metal removal with reduced dressing frequency.
- Excels at grinding 50 Rockwell C and harder.
- Submicron crystal structure continually fractures to produce sharp new grinding points.
- Designed for heavier downfeeds and faster traverse rates with excellent form holding capabilities.

### **32A**

- Sharp mono-crystalline aluminum oxide grain with premium CGW bond offers excellent versatility and performance on a wide range of applications and materials.
- Outstanding form holding wheels with free cutting grain.
- Ideal for medium to heavy stock removal.
- The most popular grain for tool room, surface grinding applications.

### **AZ - Premium Blue Aluminum Oxide**

- Engineered for grinding high speed steels over 55C and general purpose tool steels.
- Exceptionally fast and cool cutting characteristics suitable for grinding heat sensitive, alloy steels and mold steels.
- Free cutting design pulls the heat away from the part.
- Friable grain for cooler grinding. Requires minimal dressing and holds its form well.

### **RA - Ruby Aluminum Oxide**

- Ideal for rough grinding of all tool steels including steel with high levels of chromium.
- A tough, sharp, yet friable abrasive with high material removal rate and strong form holding capabilities.
- Grain is tougher than White, AZ or Pink grain wheels.

### **PA - Pink Aluminum Oxide**

- Ideal for grinding medium and hard to grind high speed steels and alloy steels.
- Sharp grain for fast, cool cutting action.
- Excellent tool sharpening wheel.

### **WA - White Aluminum Oxide**

- Used when easy cutting action is needed on all surfaces.
- Ideal for grinding heat-sensitive steels, as well as easy and medium to grind high speed steels.
- The most friable grain choice.

### Surface Grinding Wheels Selection Chart

SIZE - GRIT - HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White
6 x 1/2 x 1 1/4 T1 60-K			34301			
7 x 1/4 x 1 1/4 T1 46-I			34303		58000	34600
7 x 1/4 x 1 1/4 T1 60-I			34308			34603
7 x 1/4 x 1 1/4 T1 60-J			34309	59025	58001	34604
7 x 1/4 x 1 1/4 T1 60-K	34206		34310			34605
7 x 1/4 x 1 1/4 T1 80-J			34312			34606
7 x 1/4 x 1 1/4 T1 80-K	34207		34313		58002	34607
7 x 1/4 x 1 1/4 T1 80-L			34314			
7 x 1/4 x 1 1/4 T1 100-K			34315		58003	34608
7 x 1/4 x 1 1/4 T1 120-K						34609
7 x 1/4 x 1 1/4 T1 150-K			34317			34610
7 x 1/2 x 1 1/4 T1 46-G						34614
7 x 1/2 x 1 1/4 T1 46-H	34208	37700	34318	34633	58004	34615
7 x 1/2 x 1 1/4 T1 46-I	34210	37701	34319		58005	34616
7 x 1/2 x 1 1/4 T1 46-J	34209	37702	34320		58006	34617
7 x 1/2 x 1 1/4 T1 46-J/K				34634		
7 x 1/2 x 1 1/4 T1 46-K	37767	37703	34321		58007	34618
7 x 1/2 x 1 1/4 T1 60-H			34323		58008	34619
7 x 1/2 x 1 1/4 T1 60-I		37704	34324		58009	34620
7 x 1/2 x 1 1/4 T1 60-J	34212	37705	34325		58010	34621
7 x 1/2 x 1 1/4 T1 60-J/K				34635		
7 x 1/2 x 1 1/4 T1 60-K	34213	37706	34326		58011	34622
7 x 1/2 x 1 1/4 T1 60-L			34327			
7 x 1/2 x 1 1/4 T1 80-H			34328			
7 x 1/2 x 1 1/4 T1 80-K	37768	37728	34329	59000	58012	34623
7 x 1/2 x 1 1/4 T1 100-K			34330			34624
7 x 1/2 x 1 1/4 T1 120-K			34331			34625
7 x 1/2 x 1 1/4 T1 150-K			34332			34626
7 x 1/2 x 1 1/4 T1 46-H12			34333			
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H		37729	34335	59027		34636
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-I			34336		58013	
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J		37730	34337	59001	58014	34638
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-K			34338			
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-H						34640
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J		37731	34341	59002	58015	34642
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J/K				59028		
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H		37732	34342	59029	58016	34647
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I			34343			34648
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J		37733	34344	59003	58017	34649
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K			34345			34650
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34652
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J		37734	34348	59004	58018	34653
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K			34349			
8 x 1/4 x 1 1/4 T1 46-J	37769					
8 x 1/4 x 1 1/4 T1 60-J	34114					
8 x 1/4 x 1 1/4 T1 60-K						34663
8 x 1/4 x 1 1/4 T1 80-J						34664
8 x 1/2 x 1 1/4 T1 46-H	37770	37707	34350	59005	58019	34671
8 x 1/2 x 1 1/4 T1 46-I		37708	34351		58020	34672
8 x 1/2 x 1 1/4 T1 46-J	37771	37709	34352		58021	34673
8 x 1/2 x 1 1/4 T1 46-J/K				59006		
8 x 1/2 x 1 1/4 T1 46-K	34214	37735	34353		58022	34674
8 x 1/2 x 1 1/4 T1 60-H			34354			
8 x 1/2 x 1 1/4 T1 60-I			34355			34676
8 x 1/2 x 1 1/4 T1 60-J	34215	37710	34356		58023	34677
8 x 1/2 x 1 1/4 T1 60-K		37711	34357	59007	58024	34678
8 x 1/2 x 1 1/4 T1 80-K		37736	34358	59008	58025	34679
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H			34359	59009	58026	34683

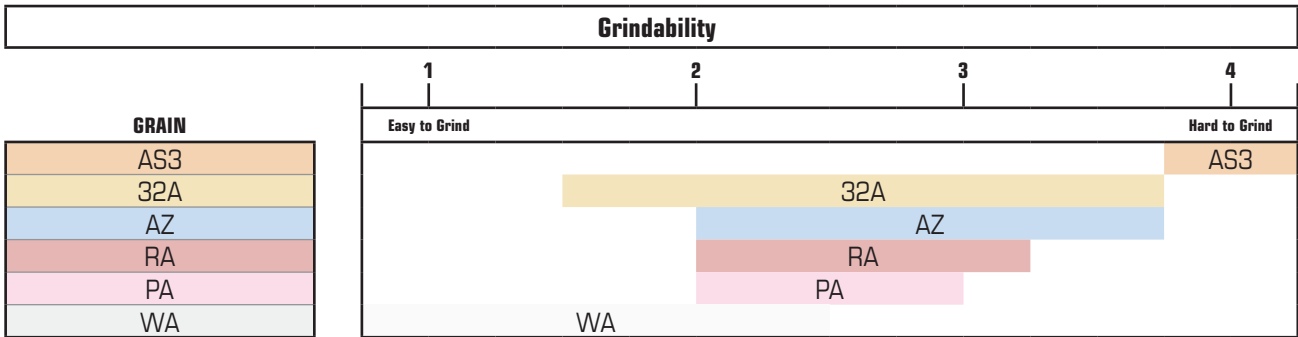
**Surface Grinding Wheels Selection Chart**

<b>SIZE - GRIT - HARDNESS</b>	<b>AS3 Ceramic</b>	<b>32A</b>	<b>AZ Premium Blue</b>	<b>RA Ruby</b>	<b>PA Pink</b>	<b>WA White</b>
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J			34360			34685
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-I						34688
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J			34364			34689
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-K						34690
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H			34366		58027	
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I						34696
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J			34367		58028	34697
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J/K				59010		
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K						34698
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34700
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J			34369		58029	34701
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J/K				59011		
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K						34702
10 x 1/2 x 3 T1 60-J						34712
10 x 3/4 x 3 T1 46-I			34380			
10 x 3/4 x 3 T1 60-H			34383			
10 x 3/4 x 3 T1 60-I						34719
10 x 1 x 2 T1 46-I			34387			
10 x 1 x 3 T1 46-H	37772		34389		58030	34723
10 x 1 x 3 T1 46-I			34390			34724
10 x 1 x 3 T1 46-J	37773	37737	34391		58031	34725
10 x 1 x 3 T1 46-J/K				59012		
10 x 1 x 3 T1 46-K	34217		34392			
10 x 1 x 3 T1 60-I			34394			
10 x 1 x 3 T1 60-J	34218	37738	34395		58032	34729
10 x 1 x 3 T1 60-K			34396			
12 x 3/4 x 3 T1 46-H			34397			
12 x 3/4 x 3 T1 46-I						34735
12 x 3/4 x 5 T1 60-J			34409			
12 x 1 x 3 T1 46-H	34219	37712	34411	59013	58033	34742
12 x 1 x 3 T1 46-I			34412			34743
12 x 1 x 3 T1 46-J	34220	37713	34413		58034	34744
12 x 1 x 3 T1 46-J/K				59014		
12 x 1 x 3 T1 46-K			34414			
12 x 1 x 3 T1 60-I	34221		34416			
12 x 1 x 3 T1 60-J	37775					34749
12 x 1 x 3 T1 60-K		37739	34418			
12 x 1 x 5 T1 46-H	34222		34419			34752
12 x 1 x 5 T1 46-J	34223	37740	34421			34755
12 x 1 x 5 T1 46-K		37741	34422	59015	58035	
12 x 1 x 5 T1 60-J	37777	37742	34425			
12 x 1 x 5 T1 60-K		37743	34426	59016	58036	34760
12 x 1 x 5 T1 80-K		37754				
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-H						34761
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-I						34762
12 x 1 1/2 x 3 (w-7 1/2 x 1/2) T5 46-J						34763
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 60-I						34766
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-H	34225	37714	34427	59017	58037	34769
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-I			34428			34770
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J	34226	37715	34429		58038	34771
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J/K				59018		
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-K			34430			34772
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-I			34432			34774
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-J	34227	37755	34433			34775
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-K		37744				34776
12 x 1 x 5 T1 80-K		37756				
12 x 2 x 3 (R/2-7 1/2 x 1/2) T7 46-I			34434			
12 x 2 x 3 (R/2-6 1/2 x 1/2) T7 60-J			34435			

Surface Grinding Wheels Selection Chart						
SIZE - GRIT - HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White
12 x 2 x 5 (R/2-6 <sup>1</sup> / <sub>2</sub> x 1/2) T7 46-H		37716	34436	59019	58039	34777
12 x 2 x 5 (R/2-7 <sup>1</sup> / <sub>2</sub> x 1/2) T7 46-I		37717	34437		58040	34778
12 x 2 x 5 (R/2-7 <sup>1</sup> / <sub>2</sub> x 1/2) T7 46-J		37757	34438			34779
12 x 2 x 5 (R/2-7 <sup>1</sup> / <sub>2</sub> x 1/2) T7 46-J/K				59020		
12 x 2 x 5 (R/2-7 <sup>1</sup> / <sub>2</sub> x 1/2) T7 60-H			34440			34781
12 x 2 x 5 (R/2-7 <sup>1</sup> / <sub>2</sub> x 1/2) T7 60-J		37758				
12 x 2 x 5 (R/2-7 <sup>1</sup> / <sub>2</sub> x 1/2) T7 60-K			34443			
14 x 1 x 3 T1 46-H	37779					
14 x 1 x 3 T1 46-I			34445			
14 x 1 x 3 T1 46-J	34115					
14 x 1 x 3 T1 60-J	37780					
14 x 1 x 5 T1 46-H	34230	37745	34447	59042	58048	
14 x 1 x 5 T1 46-I		37718	34448		58049	34786
14 x 1 x 5 T1 46-I/J				59021		
14 x 1 x 5 T1 46-J	34232	37759	34449			
14 x 1 x 5 T1 46-K			34450			
14 x 1 x 5 T1 60-I			34452			34790
14 x 1 x 5 T1 60-J	34233	37760	34453			
14 x 1 x 5 T1 60-K		37746	34454		58050	34792
14 x 1 x 5 T1 80-K		37761				
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 46-H	34238	37719	34456	59022	58041	34801
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 46-I		37747	34457			34802
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 46-J	34239	37720	34458		58042	34803
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 46-K			34459	59045		
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 60-H			34460			
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 60-I	34240					
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 60-J	34243	37762	34462	59046		
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 46-H	34234	37721	34464			34793
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 46-I	34235	37722	34465			34794
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 46-I/J				59023		
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 46-J	37782	37763	34466			34795
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 46-K		37748	34467	59048		
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 60-H						34797
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 60-I	34236		34469			34798
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 60-J	37783	37749	34470			
14 x 1 <sup>1</sup> / <sub>2</sub> x 5 (R/1-8 x 1/2) T5 60-K			34471	59049		
14 x 2 x 5 T1 46-H		37750	34472			
14 x 2 x 5 T1 46-I			34473			34808
14 x 2 x 5 T1 46-J		37723	34474			
14 x 2 x 5 T1 60-J		37764				34809
14 x 2 x 5 (R/1-8 x 1) T5 46-H	34241	37724	34480	59024	58043	34811
14 x 2 x 5 (R/1-8 x 1) T5 46-I		37725	34481		58044	34812
14 x 2 x 5 (R/1-8 x 1) T5 46-J		37751	34482			34813
14 x 2 x 5 (R/1-8 x 1) T5 46-K			34483			34814
14 x 2 x 5 (R/1-8 x 1) T5 60-I						34816
14 x 2 x 5 (R/1-8 x 1) T5 60-J		37765	34486			34817
14 x 2 x 5 (R/1-8 x 1) T5 60-K		37726	34487		58045	
14 x 2 x 5 (R/2-8 x 3/8) T7 46-H		37752				
14 x 2 x 5 (R/2-8 x 3/8) T7 46-I		37727	34488		58046	
14 x 2 x 5 (R/2-8 x 3/8) T7 46-J		37766	34489		58047	
14 x 2 x 5 (R/2-8 x 3/8) T7 46-K			34490	59058		
14 x 2 x 5 (R/2-8 x 3/8) T7 60-J	34116	37753		59059		
16 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 46-H			34491			
16 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 60-H			34500			
16 x 1 <sup>1</sup> / <sub>2</sub> x 5 T1 60-J			34493			
16 x 2 x 5 T1 46-I			34495			
16 x 2 x 5 T1 46-J			34496			
16 x 2 x 5 T1 60-K			34497			

# Surface Grinding Wheels

## Tool Steel Classifications



Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability
<b>Air-Hardening Medium Alloy Cold Work Tool Steels</b>		<b>Carbon-Tungsten Tool Steels</b>		<b>Molybdenum Hot Work Tool Steels</b>		<b>Molybdenum High-Speed Tool Steels (cont.)</b>		<b>Oil-Hardened Cold Work Tool Steels</b>		<b>Tungsten High-Speed Tool Steels</b>	
A2	1	F1	2	H41	2	M6	3	O1	1	T1	2
A3	1	F2	2	H42	2	M7	3	O2	1	T2	2
A4	1	F3	2	H43	2	M8	2	O6	1	T3	3
A5	1	<b>Chromium Hot Work Tool Steels</b>		<b>Low-Alloy Special Purpose Tool Steels</b>		M10	2	O7	1	T4	2
A6	1	H10	1	L1	1	M15	4	<b>Mold Steels</b>		T5	3
A7	1	H11	1	L2	1	M20	2	P1	1	T6	3
A8	1	H12	1	L3	1	M25	2	P2	1	T7	2
A9	1	H13	1	L4	1	M30	2	P3	1	T8	2
A10	1	H14	1	L5	1	M33	3	P4	1	T9	4
<b>Air-Hardening Medium Alloy Cold Work Tool Steels</b>		H16	1	L6	1	M34	3	P5	1	T15	4
D1	2	H17	1	L7	1	M35	3	P6	1	T20	4
D2	3	<b>Tungsten Hot Work Tool Steels</b>		<b>Molybdenum High-Speed Tool Steels</b>		M40	3	P20	1	<b>Water-Hardening Tool Steels</b>	
D3	2	H20	1	M1	2	M41	3	P21	1	W1	1
D4	2	H21	1	M2	2	M42	3	<b>Shock-Resisting Tool Steels</b>		W2	1
D5	2	H22	1	M3	3	M43	3	S1	1	W3	1
D6	2	H23	1	M4	4	M44	3	S2	1	W4	1
D7	4	H24	1			M45	3	S3	1	W5	1
		H25	1			M50	3	S4	1	W7	1
		H26	1			M52	3	S5	1		
								S6	1		
								S7	1		



**New** **Porous Surface Grinding Wheels**

Description and Applications

- Engineered for medium and heavy stock removal and heat sensitive applications
- Strong, innovative bonds for tough applications
- Porous grinding wheels accelerate grinding processes
- CGW has multiple grains options to match all your applications goals

**AS3:** Heavy stock removal & heat sensitive applications.

**32A:** Built for flexibility in stock removal.

**RA:** For medium to heavy stock removal & heat sensitive applications.

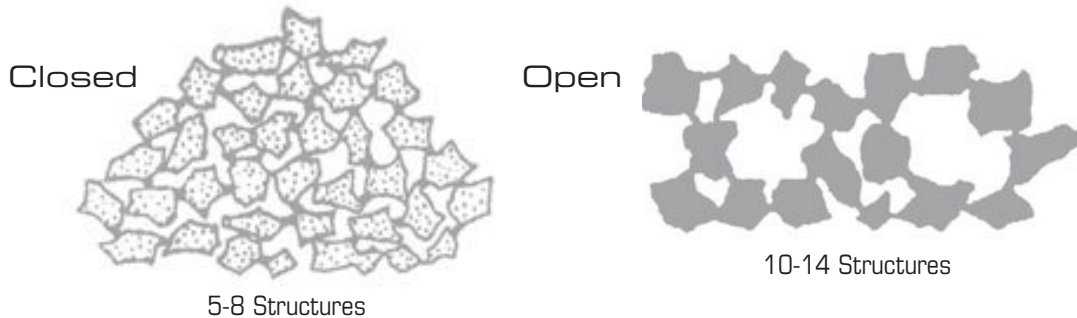
**PA:** For light to medium stock removal & heat sensitive applications.



Porous Surface Grinding Wheels Selection Chart				
SIZE - GRIT - HARDNESS	AS3 Ceramic	32A	RA Ruby	PA Pink
7 x 1/2 x 1 1/4 T1 46-G12	34249	37786	59080	
7 x 1/2 x 1 1/4 T1 46-H12	34250	37787	59081	58062
7 x 1/2 x 1 1/4 T1 60-H12	34251	37788	59082	58063
8 x 1/2 x 1 1/4 T1 46-G12	34252	37789		
8 x 1/2 x 1 1/4 T1 46-H12	34253	37790	59084	58065
8 x 1/2 x 1 1/4 T1 60-H12	34254	37791	59085	58066
10 x 1/2 x 1 1/4 (+bushing to 3/4) T1 60-H12		37796	59090	58071
10 x 1 x 1 1/4 T1 46-H12		37797	59091	58072
12 x 1 1/2 x 5 T5 46-H12	34255	37792	59086	58067
14 x 1 1/2 x 5 T1 46-H12	34256	37793	59087	58068
14 x 1 1/2 x 5 T5 46-H12	34257	37794	59088	58069
14 x 2 x 5 T5 46-H12	34258	37795	59089	58070

**Structure**

Wheel structure is the spacing of the grain in the wheel. The grain is held in position by the bond, the closer the grains (the smaller the pores), the lower the structure. The further apart the grains (the larger the pores), the higher the structure.



## Mounted Points

### Premium Pink Aluminum Oxide

#### Description and Applications

- Used in almost every industry but primarily in tool and die shops, and foundries. General applications: Deburring, tool sharpening, finishing cavities, and removes mold marks and parting lines.
- Mounted points are classified by shape groups A, B, and W.
- The semi-friable pink PA abrasive is used to produce sharp, consistent cutting action.



### A-Shape Mounted Points

R.P.M.\*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
<b>35951</b>	A-1	7/8 x 2 1/2	1/4 Shank	10	20
<b>35953</b>	A-3	7/8 x 2 3/4	1/4 Shank	10	20
<b>35954</b>	A-4	1 1/4 x 1 1/4	1/4 Shank	10	20
<b>35955</b>	A-5	3/4 x 1 1/8	1/4 Shank	10	20
<b>35957</b>	A-11	7/8 x 2	1/4 Shank	10	20
<b>35975</b>	A-38	1 x 1	1/4 Shank	10	20

### B-Shape Mounted Points

R.P.M.\*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
<b>35980</b>	B-44	7/32 x 3/8	1/8 Shank	10	20
<b>35985</b>	B-52	3/8 x 3/4	1/8 Shank	10	20
<b>36009</b>	B-132	3/8 x 1/2	1/8 Shank	10	20

### W-Shape Mounted Points

R.P.M.\*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
<b>36042</b>	W-189	1/2 x 1	1/8 Shank	10	20
<b>36058</b>	W-220	1 x 1	1/4 Shank	10	20
<b>36060</b>	W-222	1 x 2	1/4 Shank	10	20
<b>36067</b>	W-236	1 1/2 x 1/2	1/4 Shank	10	20

\* No matter what factors of wheel size, shape, specification, mandrel size, overhang, or machine conditions are changed, the speed of 10,000 SFPM shall not be exceeded.