

INDUSTRIAL SUPPLY

CUTTING | GRINDING | FINISHING

A Company of the SWAROVSKI Group
www.tyrolit.com

TYROLIT





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TYROLIT ABRASIVES NORTH AMERICA

TYROLIT Abrasives has been providing the North American industry with high quality cutting, grinding and finishing products at ultra competitive prices for over 28 years. Building on our over quarter century commitment to the marketplace, TYROLIT Abrasives is devoted to providing continuous product improvements through our unyielding pursuit of the latest technological innovations.

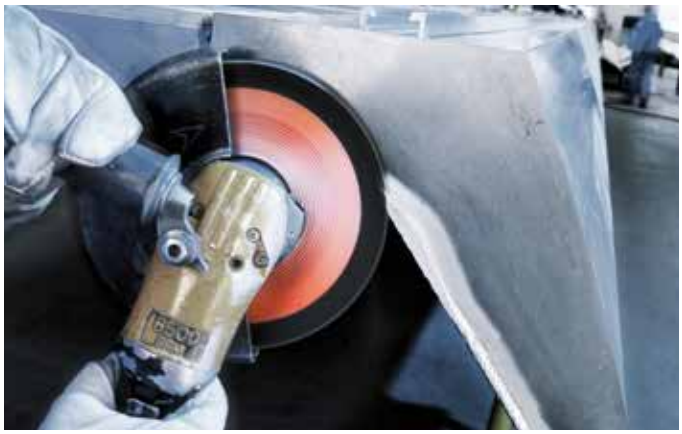
With annual global sales over of over $ 600 M USD, 29 production facilities in 13 countries and a worldwide team of over 4,000 members, we are confident that TYROLIT Abrasives will exceed your expectations as your strategic abrasives provider.

TYROLIT IS GLOBAL

As the second largest manufacturer of abrasive in the world, TYROLIT will continue to forge ahead with our ambitious expansion plans. Our goal is to increase the level of service & support in the markets we operate in now while we build a stronger presence in the markets or regions that we are not strong in.

With our wide range of products (80,000), our numerous global locations, our commitment to the manufacturing of environmentally friendly products and our unyielding focus on quality & safety TYROLIT will exceed your expectations as your strategic abrasives partner.

Please contact us to find out how TYROLIT can tailor our abrasive products to your suit your company's application through the work of our highly skilled product engineers.







QUALITY LINES

Two product levels for ease of selection:

PREMIUM★★★

Quality products for maximum performance:
TYROLIT PREMIUM products are highest performers in the category, offering outstanding life and efficiency for optimum performance

BASIC★

Quality products for universal use:
TYROLIT BASIC products offer an excellent price to performance ratio, whilst still maintaining good performance and service life with assured total safety







PRINCIPLES

CUSTOMER RELATIONS

We view our customers as partners with the aim of achieving a long lasting mutually beneficial relationship.

The success of our customers lies in the quality of our products, our knowledge of application technology and the provision of customer-specific on-site solutions.

This close cooperation with our customers leads to remarkable strategic developments and ensures long-term success for both parties.

Our global network of production centres, sales operations and our carefully selected local distribution partners means that TYROLIT is the only global supplier of abrasives for our internationally active customers all over the world.

INNOVATION

The development and implementation of our visions and ideas for the future has always been and remains a key factor in the success of our company.

The creative potential of our employees is constantly looking out for new technology, developing new materials or continuously optimizing the entire production process, this is helping to gain a competitive edge over our competitors.



TYROLIT = SAFETY

Our constant goal is to make our products to the highest safety standards for our customers:

- Through our work as the founder member of the "Organisation for the Safety of Abrasives (OSA),"
- Through close cooperation with the safety authorities like ANSI,
- Through practical communication with our users all over the world.

AIM OF OSA

The main aim of OSA is defined in terms of absolute protection for the users of grinding tools. Members undertake to:

- Provide a consistently high level of quality,
- Adopt a rigorous approach towards quality assurance,
- Strive to develop new, improved standards of safety.

The Symbol of Safety.

If you see the OSA logo, you can assure the product was manufactured to the highest safety standards.

QUALITY

Our strength remains as an unbeatable combination of tradition, innovation and quality.

Our quality level is characterised by our constant desire to improve quality, an attribute that is embedded in the strategic orientation of the company. It is this characteristic that guarantees our customers the usual high quality standards they expect of TYROLIT.

The TYROLIT quality management system has been certified to ISO 9001:2000 by an external authorized body for the entire production area. Production is carried out in accordance with European Standards:

- EN12413 for grinding wheels made of bonded abrasives
- EN13236 for grinding wheels made of diamond or boron nitride
- EN13743 for special abrasives on an underlay such as
  - Vulcanised fiber grinding wheels
  - Flap grinding wheels
  - Flap Discs
  - Mounted points





GENERAL INFORMATION

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EXPLANATION OF LABELS
RESIN-BONDED

LABEL



Identification of the maximum permissible speed

Product markings according to quality levels:

Pictograms, application and safety information

Part Number

Materials

Registered trademark of TYROLIT

General Safety Warning

Dimensions Shape / Type Specifications

Barcode

TYROLIT - Founding Member of OSA, The world's safety and quality standard.

SPECIFICATION

Abrasive designation	Grit size in mesh			Designation of hardness			Type of bond
A = regular aluminium oxide (long-chipping materials/metals)	24	46	80	N	Q	T	B = bond/bonding agent (resin)
C = silicon carbide (short-chipping materials/stone)	30	46		O	R	S	F = fiber-reinforced – with fiber glass (for safety, lateral load and max. operating speed)
ZA = zirconium aluminium oxide (cast materials or for flap discs)	30	60	120	P	S		

EXPLANATION OF LABELS
RESIN-BONDED

SHAPES

Type 1
Cut-off wheel
(straight design)



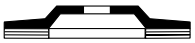


Type 29
Flap disc (conical design)



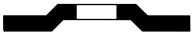
Type 27
Cut-off wheel
(depressed-centre design)





Type 27
Flap disc (flat design)





Type 27
Rough grinding wheels
(depressed-centre design)





Type 29
Rondeller
(semi-flexible grinding wheel)





Type 28
Rough grinding wheels



COLOR CODES

						
Label	Steel	2in1 / 3in1	INOX	Stone	NF metals	Cast iron
Colour codes	Blue	Blue	Red	Green	Orange	Purple
Materials	Steel	2in1 (steel/ stainless steel) or 3in1 (cast iron/steel/ stainless steel)	Rust and acid resistant steels	Stone	Aluminium, copper, zinc, brass, bronze, stone	Cast materials

PICTOGRAMS
MACHINES

ICONS



Straight grinders



Hand guided tool



Hand and Orbital Sander



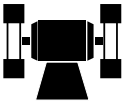
0-5° Grinding, brushing, drilling



20-30° Roughing



90° Cutting-off



Bench grinder



Circular Saw



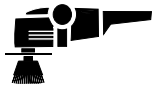
Stationary cutting-off machine



Cut-off grinder



Angle grinder



Angle grinder with brush



Angle grinder with cup wheel

ICONS


Steel



Stainless steel



Steel/stainless steel


Cast iron



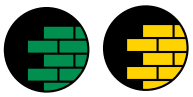
Cast iron, steel, INOX



Nonferrous metals



Stone and nonferrous metals


Stone, universal building materials


Rails



Plastics, lacquers, paints


Abrasive materials


Hard stone, granite


Ceramics, tiles



HSS: tool steel



HM-TC: tungsten carbide


Concrete


Soft stone


Composites


Gel coat


Wood


Ductile

SAFETY INFORMATION


Pay attention to the safety recommendations


Use dust mask


Use eye protection


Use ear protection


Use gloves


Do not use damaged wheels


Personal safety


Not permitted for side grinding


Dry grinding


Wet grinding


No freehand work

DOS & DON'TS

DO ✓

- Handle and store grinding tools carefully; use the oldest tools first.
- Prior to mounting or use, grinding wheels must be cleaned and undergo a visual check for cracks or possible damage.
- Ceramic bonded grinding tools must undergo a sound check before mounting.
- Make sure that the speed of the machine (RPM) does not exceed the maximum operating speed specified on the packaging or on the abrasive.
- Ensure that the bore of the grinding tool – with or without thread – fits the shaft of the machine perfectly; and that the wheel flanges are clean, flat, the same size and suitable for the grinding tool to be clamped.
- As intended or supplied, use the intermediate layers between the grinding wheel and wheel flanges.
- Only use machines with protection/guards and ensure their proper condition and fixture before the machine is switched on.
- After each mounting, carry out a test run for at least one minute at the operating speed and ensure machine guard is mounted correctly. In doing so, ensure that any fragments would not be able to hit you or someone else in the event of a possible breakage.
- Eye protection is always recommended for all grinding processes. For off-hand grinding, protective goggles or a safety mask is recommended.
- When working with cut-off or roughing wheels, ensure that the air supply and protective measures sufficiently correspond with the material to be processed. Suitable extraction systems should be fitted for all dry grinding processes.
- Only use machines that are also suitable for grinding tools with hub.
- Before stopping the machine, cut off the supply of cooling lubricant and remove the excess cooling lubricant from the grinding wheel.

DON'T ✗

- Do not use abrasives that are exposed to particularly humid/wet conditions or high temperatures prior to mounting.
- Never use abrasives that have been dropped, damaged or that look like they would not be fit for purpose.
- Never exceed the maximum permissible operating speed specified.
- Do not use wheel flanges with surfaces that are not free of foreign bodies (e. g. grinding swarf), flat or burr-free.
- Do not tighten the clamping device or wheel flange too much.
- Do not use recessed wheel flanges or flanges with recesses for grinding discs or cones.
- Never use force when clamping and do not make any changes to the grinding tool.
- Only use one-way adapters (hubs) once.
- Only switch on the machine when the protection cover is correctly and securely fixed (machine guards or covers should be set in such a way that they divert sparks and grinding particles away from the body).
- Only start the machine if there is no contact between the workpiece and the grinding tool.
- Never work with grinding tools without sufficient air supply (never without breathing apparatus and ear protection, particularly in enclosed spaces) and without personal safety equipment (see pictogram).
- Use a suitable grinding tool – an unsuitable product can create excessive grinding particles and dust.
- Avoid mechanical damage to the grinding wheel as a result of force effects, jolting or heating.
- Never use grinding machines in an improper condition or that contain faulty components.
- Do not use cut-off wheels for grinding work (do not exert a lateral load on any cut-off wheels of shape 41 or 42).
- Never mount more than one grinding tool on one shaft.



CUTTING

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- ANGLE GRINDERS 18
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CUTTING

The innovative and economic advantages of our super-thin cut-off wheels can be seen especially when cutting thin metal sheets and thin-walled profiles. These are shown particularly by maximum performance, lifetime, clean cutting areas, the lowest burr formation and the low thermal load on the workpiece. Cut-off wheels in standard widths offer not only the most economical solution but also ultimate safety due to the maximum lifetime and stability. For cutting solid materials, pipes, and profiles made from steel and stainless steel, including cast iron. A thorough color coding system enables you to always find the right product for your material or application.



BASIC★ SMALL DIAMETER CUT-OFF WHEELS FOR STRAIGHT SHAFT GRINDERS

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

Certified Fe S CL FREE - no contamination



1

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20008031	1	3" x 1/32" x 1/4"	A60TBF	25,000	75	$ 1.61
20006719	1	3" x 1/32" x 3/8"	A60TBF	25,000	75	$ 1.61
20008032	1	3" x 1/16" x 1/4"	A36TBF	25,000	100	$ 1.61
20006720	1	3" x 1/16" x 1/4"	A60TBF	25,000	40	$ 1.61
20006721	1	3" x 1/16" x 3/8"	A36TBF	25,000	40	$ 1.61
20008026	1	3" x 1/16" x 3/8"	A60TBF	25,000	40	$ 1.61
20010548	1	3" x 3/32" x 1/4"	A36TBF	25,000	25	$ 1.69
20010566	1	3" x 3/32" x 1/4"	A60TBF	25,000	25	$ 1.69
20006735	1	3" x 3/32" x 3/8"	A36TBF	25,000	50	$ 1.69
20006736	1	3" x 3/32" x 3/8"	A60TBF	25,000	50	$ 1.69
20006737	1	3" x 1/8" x 3/8"	A36TBF	25,000	50	$ 2.09
20006722	1	3" x 1/8" x 3/8"	A60TBF	25,000	50	$ 2.09
20006723	1	4" x 1/32" x 1/4"	A60TBF	19,100	100	$ 2.24
20006724	1	4" x 1/32" x 3/8"	A60TBF	19,100	75	$ 2.24
20006725	1	4" x 1/32" x 5/8"	A60TBF	19,100	75	$ 2.24
20006726	1	4" x 1/16" x 1/4"	A36TBF	19,100	100	$ 2.29
20006727	1	4" x 1/16" x 1/4"	A60TBF	19,100	100	$ 2.29
20006728	1	4" x 1/16" x 3/8"	A36TBF	19,100	40	$ 2.29
20006729	1	4" x 1/16" x 3/8"	A60TBF	19,100	100	$ 2.29
20006730	1	4" x 1/16" x 5/8"	A36TBF	19,100	40	$ 2.29
20006731	1	4" x 1/16" x 5/8"	A60TBF	19,100	40	$ 2.29
20010573	1	4" x 1/16" x 3/4	A60TBF	19,100	40	$ 2.29
20010556	1	4" x 3/32" x 5/8"	A36TBF	19,100	25	$ 2.29
20010577	1	4" x 3/32" x 5/8"	A60TBF	19,100	25	$ 2.29
20006738	1	4" x 3/32" x 3/8"	A36TBF	19,100	25	$ 2.29
20006739	1	4" x 3/32" x 3/8"	A60TBF	19,100	50	$ 2.29
20010554	1	4" x 1/8" x 1/4"	A36TBF	19,100	25	$ 2.41
20010574	1	4" x 1/8" x 1/4"	A60TBF	19,100	25	$ 2.41
20006732	1	4" x 1/8" x 3/8"	A36TBF	19,100	25	$ 2.41
20006733	1	4" x 1/8" x 3/8"	A60TBF	19,100	50	$ 2.41

ACCESSORIES

Flush-Mount mandrel for mounting small diameter cutoff wheels on all straight shaft grinders

	PART NO.	DESCRIPTION	STD PKG	LIST PRICE
	20021895	Flush-Mount Mandrel for wheels - 1/4 or 3/8 arbour holes	1	$ 17.61

SUPER-THIN CUT-OFF WHEELS FOR ANGLE GRINDERS

TYROLIT "SUPER-THIN" Cut-Off wheels are available in multiple types, including "Long Life" for steel only and our "2 in 1" for both steel and stainless steel. Both types offer fast, free and cool cutting featuring industry leading cutting speed and overall life.

New CERABOND cut-off wheels utilize carefully selected, treated ceramic grains that are performance bonded to offer exceptional life and durability in steel and stainless steel.



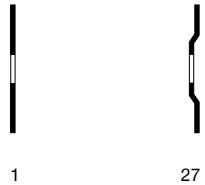
PREMIUM★★★ CUT-OFF WHEEL

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

The TYROLIT CERABOND system brings almost 100 years of experience to a new generation of highest performance tools. With the cut-off wheels from the CERABOND family, we have succeeded in achieving an optimal combination of specially treated ceramic grain and bond structure. Thus it is possible to retain the abrasiveness and the lifetime of the cut-off wheel at the highest level.

The unique bond system prevents premature grain break-out and guarantees the full grinding power of the individual grains.





1 27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34059903	1	4 1/2“ x .045“ x 7/8“	CA60Q-BFKA	13,300	15	$ 4.10
34059904	1	5“ x .045“ x 7/8“	CA60Q-BFKA	12,250	15	$ 4.80
34059905	1	6“ x .045“ x 7/8“	CA60Q-BFKA	10,200	15	$ 5.38
34019872	1	4 1/2“ x .060“ x 7/8“	CA46Q-BFKA	13,300	15	$ 4.50
34019880	1	5“ x .060“ x 7/8“	CA46Q-BFKA	12,250	15	$ 5.20
34019881	1	6“ x .060“ x 7/8“	CA46Q-BFKA	10,200	15	$ 5.70
34059906	1	7“ x .060“ x 7/8	CA46Q-BFKA	8,600	15	$ 7.13
34059907	1	9“ x 5/64“ x 7/8“	CA30Q-BFKA	6,650	15	$ 8.55
34059908	27	4 1/2“ x .045“ x 7/8“	CA60Q-BFKA	13,300	15	$ 4.30
34059909	27	5“ x .045“ x 7/8“	CA60Q-BFKA	12,250	15	$ 4.93
34059910	27	6“ x .045“ x 7/8“	CA60Q-BFKA	10,200	15	$ 5.45
34019882	27	4 1/2“ x .060“ x 7/8“	CA46Q-BFKA	13,300	15	$ 5.60
34019883	27	5“ x .060“ x 7/8“	CA46Q-BFKA	12,250	15	$ 6.45
34019884	27	6“ x .060“ x 7/8“	CA46Q-BFKA	10,200	15	$ 7.10

PREMIUM★★★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

Certified Fe S CL FREE - no contamination





1 27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34162816	1	4 1/2“ x .045“ x 7/8“	TA60P-BFXA	13,300	25	$ 3.25
34162817	1	5“ x .045“ x 7/8“	TA60P-BFXA	12,250	25	$ 3.45
34162818	1	4 1/2“ x .040“ x 7/8“	A60Q-BFKA	13,300	25	$ 2.68
34162819	1	5“ x .040“ x 7/8“	A60Q-BFKA	12,250	25	$ 2.81
34162820	1	4 1/2“ x .060“ x 7/8“	A46Q-BFKA	13,300	25	$ 2.85
34162821	1	5“ x .060“ x 7/8“	A46Q-BFKA	12,250	25	$ 3.12
34162822	1	6” x .045” x 7/8”	TA60P-BFXA	10,200	25	$ 3.78
34162823	1	6” x .060” x 7/8”	A46Q-BFKA	10,200	25	$ 3.60
34162824	1	6” x .045” x 7/8”	A46Q-BFKA	10,200	25	$ 3.55
34162825	1	7” x .060” x 7/8”	A46Q-BFKA	8,600	25	$ 4.44
34162826	1	9” x .075” x 7/8”	A46Q-BFKA	6,650	25	$ 5.98
34162792	27	4 1/2“ x .040“ x 7/8“	A60Q-BFXA	13,300	25	$ 2.86
34162793	27	5“ x .040“ x 7/8“	A60Q-BFXA	12,250	25	$ 3.04
34162794	27	4 1/2“ x .060“ x 7/8“	A46Q-BFXA	13,300	25	$ 3.19
34162795	27	5“ x .060“ x 7/8“	A46Q-BFXA	12,250	25	$ 3.57
34162796	27	6” x .045” x 7/8”	A60Q-BFXA	10,200	25	$ 3.79
34162798	27	4 1/2“ x 3/32“ x 5/8-11"	A30Q-BFXA	13,300	5	$ 6.10
34162799	27	4 1/2“ x 3/32“ x 7/8“	A30Q-BFXA	13,300	25	$ 3.22
34162800	27	5“ x 3/32“ x 5/8-11"	A30Q-BFXA	12,250	5	$ 6.63
34162811	27	5“ x 3/32“ x 7/8“	A30Q-BFXA	12,250	25	$ 3.89
34162812	27	6“ x 1/8“ x 5/8-11"	A30Q-BFXA	10,200	5	$ 8.60
34162813	27	6“ x 1/8“ x 7/8“	A30Q-BFXA	10,200	25	$ 5.68
34162814	27	7“ x 1/8“ x 5/8-11"	A30Q-BFXA	8,600	5	$ 9.53
34162815	27	7“ x 1/8“ x 7/8“	A30Q-BFXA	8,600	25	$ 6.65

PREMIUM★★★

LONG LIFE - FOR USE ON STEEL ONLY





1 27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34163158	1	4 1/2“ x .040“ x 7/8“	A60S-BFKA	13,300	25	$ 2.68
34163159	1	5“ x .040“ x 7/8“	A60S-BFKA	12,250	25	$ 2.81
34163160	1	4 1/2“ x .060“ x 7/8“	A46S-BFKA	13,300	25	$ 2.85
34163161	1	5“ x .060“ x 7/8“	A46S-BFKA	12,250	25	$ 3.12
34163162	1	6“ x 5/64“ x 7/8“	A30S-BFXA	10,200	25	$ 3.60
34163163	1	7“ x .060 x7/8“	A46S-BFXA	8,600	25	$ 4.65

PREMIUM★★★

INOX - FOR USE ON STAINLESS STEEL ONLY

Certified Fe S CL FREE - no contamination





1 27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34163112	1	4 1/2“ x .030“ x 7/8“	A60R-BFXA	13,300	25	$ 3.05
34163116	1	5“ x .030“ x 7/8“	A60R-BFXA	12,250	25	$ 3.50
34163117	1	4 1/2“ x .040“ x 7/8“	A60R-BFKA	13,300	25	$ 3.17
34163134	1	5“ x .040“ x 7/8“	A60R-BFKA	12,250	25	$ 3.28
34163135	1	4 1/2“ x .060“ x 7/8“	A46R-BFKA	13,300	25	$ 3.36
34163136	1	5“ x .060“ x 7/8“	A46R-BFKA	12,250	25	$ 3.65
34163138	1	6” x .045” x 7/8”	A46R-BFKA	10,200	25	$ 4.10
34163139	1	6“ x .060“ x 7/8“	A46R-BFXA	10,200	25	$ 4.18
34163140	1	7“ x .060 x 7/8“	A46R-BFKA	8,600	25	$ 4.85
34163151	1	9“ x 5/64“ x 7/8“	A30R-BFKA	6,650	25	$ 7.05
34163152	27	4 1/2“ x .030“ x 7/8“	A60R-BFXA	13,300	25	$ 3.35
34163153	27	5“ x .030“ x 7/8“	A60R-BFXA	12,250	25	$ 3.85
34163154	27	4 1/2“ x .060“ x 7/8“	A46R-BFXA	13,300	25	$ 3.60
34163155	27	5“ x .060“ x 7/8“	A46R-BFXA	12,250	25	$ 4.30
34163156	27	6“ x .060“ x 7/8“	A46R-BFXA	10,200	25	$ 4.65
34163157	27	7“ x .060 x 7/8“	A46R-BFXA	8,600	25	$ 5.33

PREMIUM★★★

ALU - FOR USE ON ALUMINUM, NON-FERROUS ONLY





1 27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34163165	1	4 1/2“ x .040“ x 7/8“	A60N-BFXA	13,300	25	$ 3.30
34163166	1	5“ x .040“ x 7/8“	A60N-BFXA	12,250	25	$ 3.65
34163167	1	6” x .045” x 7/8”	A46N-BFXA	10,200	25	$ 4.05
34163169	27	4 1/2“ x .045“ x 7/8“	A46N-BFXA	13,300	25	$ 3.65
34163170	27	5“ x .045“ x 7/8“	A46N-BFXA	12,250	25	$ 3.85
34163171	27	6” x .045” x 7/8”	A46N-BFXA	10,200	25	$ 4.45

BASIC★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL



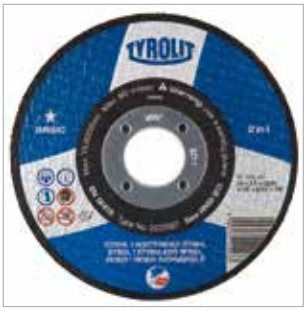


1 27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34163027	1	4“ x .040“ x 5/8“	A60Q-BF	15,300	25	$ 2.00
396110	1	4 1/2“ x .040“ x 7/8“	A60Q-BF	13,300	25	$ 2.05
34162827	1	5“ x .040“ x 7/8“	A60Q-BF	12,250	25	$ 2.35
34162828	1	6“ x .060“ x 7/8 “	A46Q-BF	10,200	25	$ 2.95
34162829	1	7“ x .060 x 7/8“	A46Q-BF	8,600	25	$ 3.30
34162830	1	9“ x .075“ x 7/8“	A46Q-BF	6,650	25	$ 5.83
34162831	27	4 1/2“ x .040“ x 7/8“	A60R-BF INOX	13,300	25	$ 2.70
34162832	27	5“ x .040“ x 7/8“	A60R-BF INOX	12,250	25	$ 3.10
34162833	27	6“ x .060“ x 7/8“	A46R-BF INOX	10,200	25	$ 3.45
396486	27	4 1/2“ x 3/32“ x 7/8“	A30Q-BF	13,300	25	$ 2.95
34162835	27	4 1/2“ x 3/32“ x 5/8-11"	A30Q-BF	13,300	5	$ 5.30
396487	27	5“ x 3/32“ x 7/8“	A30Q-BF	12,250	5	$ 4.95
34162837	27	5“ x 3/32“ x 5/8-11"	A30Q-BF	12,250	5	$ 7.30

BASIC★

FOR USE ON STEEL AND CONCRETE





PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
FOR USE ON STEEL						
20006710	1	7“ x 1/8“ x <> (5/8)"	A30S-BF	8,600	25	$ 3.51
20006711	1	8“ x 1/8“ x <> (5/8)"	A30S-BF	7,650	25	$ 4.47
FOR USE ON CONCRETE						
20006713	1	7“ x 1/8“ x <> (5/8)"	C30S-BF	8,600	25	$ 3.66
20006714	1	8“ x 1/8“ x <> (5/8)"	C30S-BF	7,650	25	$ 4.73

CUT-OFF WHEELS

TYROLIT provides a wide range of large diameter cut-off wheels from 12" to 26" for portable, stationary, gas and electric saws. All wheels are designed and engineered to meet the unique requirements of both the specific machine being used and the material being cut. All wheels feature industry leading cutting performance and safety standards.



BASIC★

HIGH SPEED WHEELS FOR USE WITH HAND HELD MACHINES ON STEEL | METAL. UNIVERSAL BORE 1" 20 mm



1

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34169155	1	12" x 1/8" x 20 mm /1" UB	A30S-BF	5,100	10	$ 8.82
34169156	1	14" x 1/8" x 20 mm /1" UB	A30S-BF100	5,500	10	$ 12.97
34169157	1	16" x 1/8" x 20 mm /1" UB	A30S-BF100	4,700	10	$ 23.56

FOR CUTTING RAIL

34163819	1	14" x 1/8" x 1"	A30S-BFRAIL 100	5,500	10	$ 18.05
34163820	1	16" x 1/8" x 1"	A30S-BFRAIL 100	4,700	10	$ 24.90

BASIC★
FOR USE ON DUCTILE, CAST IRON AND ASPHALT
UNIVERSAL BORE 1" 20 mm



1

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34169183	1	12“ x 1/8“ x 20mm / 1" UB	AC30U-BF	5,100	10	$ 8.82
34169184	1	14“ x 1/8“ x 20mm / 1" UB	AC30U-BF100	5,500	10	$ 12.97
34169185	1	16“ x 1/8“ x 20mm / 1" UB	AC30U-BF100	4,700	10	$ 23.56

BASIC★
FOR USE ON CONCRETE, STONE, MASONARY
UNIVERSAL BORE 1" 20 mm



1

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34169159	1	12“ x 1/8“ x 20mm / 1" UB	C30S-BF	5,100	10	$ 8.82
34169160	1	14“ x 1/8“ x 20mm / 1" UB	C30S-BF100	5,500	10	$ 12.97
34169182	1	16“ x 1/8“ x 20mm / 1" UB	C30S-BF100	4,700	10	$ 22.87

BASIC★

FOR USE ON CHOP SAWS FOR FERROUS METALS



1

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
30013029	1	12“ x 3/32“ x 1"	A36S-BF	5,100	10	$ 7.78
20006707	1	12“ x 7/64“ x 1"	A36S-BF	5,100	10	$ 6.38
30011735	1	14“ x 3/32“ x 1"	A36S-BF	4,400	10	$ 9.37
20006708	1	14“ x 7/64“ x 1"	A36S-BF	4,400	10	$ 7.47
30013030	1	16“ x 3/32“ x 1"	A36S-BF	3,850	10	$ 13.24
20006709	1	16“ x 7/64“ x 1"	A36S-BF	3,850	10	$ 16.06

BASIC★

FOR USE ON STATIONARY SAWS FOR FERROUS METALS



1

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20006697	1	10“ x 1/8“ x 5/8"	A30S-BF	6,150	10	$ 9.74
20006698	1	10“ x 1/8“ x 1"	A30S-BF	6,150	10	$ 9.74
20006699	1	12“ x 1/8“ x 1"	A30S-BF	5,100	10	$ 11.11
20006700	1	14“ x 1/8“ x 1"	A30S-BF	4,400	10	$ 14.13
20006701	1	16" x 1/8" x 1"	A30S-BF	3,850	10	$ 17.45
20006702	1	16“ x 1/8“ x 1“	A30S-BF	3,850	10	$ 19.98
20006703	1	18“ x 1/8“ x 1"	A30S-BF	3,400	10	$ 29.66
20006704	1	20“ x 1/8“ x 1"	A30S-BF	3,100	10	$ 37.07

BASIC★
CUT-OFF WHEELS FOR STATIONARY MACHINES FOR USE ON CONCRETE, STONE AND MASONRY



1

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20006706	1	12“ x 1/8“ x 1"	C30S-BF	5,100	10	$ 11.23
20008024	1	14“ x 1/8“ x 1"	C30S-BF	4,400	10	$ 15.97



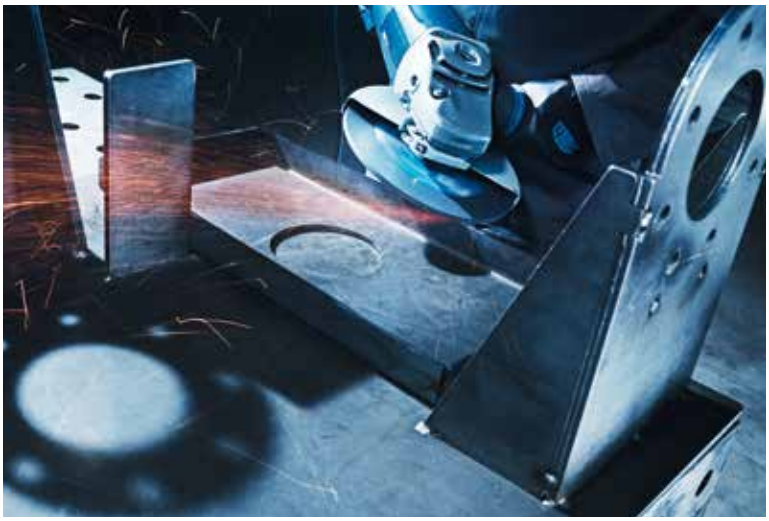


GRINDING

- ANGLE GRINDERS 28
- CUP WHEELS 35
- CARBIDE BURRS 37
- PLUGS & CONES 41

GRINDING

In order to carry out work without any vibrations and health risks, TYROLIT manufactures and tests all rough grinding wheels according to the requirements set out in EN12413. A thorough color guidance system ensures that when it comes to rough grinding wheels too, users can always find the right product for the material to be machined. The range meets the present demands of cost-effective working, high stock removal performance, simple system handling and above average wheel life.



PREMIUM★★★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL
CERAMIC GRAIN FOR EXCEPTIONAL PERFORMANCE

The TYROLIT CERABOND system brings almost 100 years of experience to a new generation of highest performance tools. With the cut-off wheels from the CERABOND family, we have succeeded in achieving an optimal combination of specially treated ceramic grain and bond structure. Thus it is possible to retain the abrasiveness and the lifetime of the wheel at the highest level.

The unique bond system prevents premature grain break-out and guarantees the full grinding power of the individual grains.





27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34019874	27	4 1/2“ x 1/4“ x 7/8“	CA24Q-BFK	13,300	5	$ 11.35
34019876	27	5“ x 1/4“ x 7/8“	CA24Q-BFK	12,250	5	$ 14.75
34019877	27	6“ x 1/4“ x 7/8“	CA24Q-BFK	10,200	5	$ 16.95
34019878	27	7“ x 1/4“ x 7/8“	CA24Q-BFK	8,600	5	$ 19.50
34019879	27	9“ x 1/4“ x 7/8“	CA24Q-BFK	6,650	5	$ 25.50
34060373	27	4 1/2“ x 1/8“ x 7/8“	CA24Q-BFK	13,300	5	$ 10.60
34060374	27	5“ x 1/8“ x 7/8“	CA24Q-BFK	12,250	5	$ 13.80
34060375	27	6“ x 1/8“ x 7/8“	CA24Q-BFK	10,200	5	$ 15.88
34060376	27	7“ x 1/8“ x 7/8“	CA24Q-BFK	8,600	5	$ 18.25
34060377	27	9“ x 1/8“ x 7/8“	CA24Q-BFK	6,650	5	$ 22.25

PREMIUM★★★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL

Certified Fe S CL FREE - no contamination



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
771130	27	4 1/2“ x 1/4“ x 7/8“	A30Q-BFX	13,300	10	$ 4.83
898119	27	4 1/2“ x 1/4“ x 5/8-11"	A30Q-BFX	13,300	5	$ 6.85
771413	27	5“ x 1/4“ x 7/8“	A30Q-BFX	12,250	10	$ 5.62
771412	27	5“ x 1/4“ x 5/8-11"	A30Q-BFX	12,250	5	$ 7.55
771420	27	6“ x 1/4“ x 7/8“	A30Q-BFX	10,200	10	$ 6.10
771419	27	6“ x 1/4“ x 5/8-11"	A30Q-BFX	10,200	5	$ 8.70
34163251	27	7“ x 1/4“ x 7/8“	A30Q-BFX	8,600	10	$ 6.83
898120	27	7“ x 1/4“ x 5/8-11"	A30Q-BFX	8,600	5	$ 9.40
771431	27	9“ x 1/4“ x 7/8“	A30Q-BFX	6,650	10	$ 9.20
898121	27	9“ x 1/4“ x 5/8-11"	A30Q-BFX	6,650	5	$ 12.30



27

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK

771406	27	4 1/2“ x 1/8“ x 7/8“	A30Q-BFX	13,300	10	$ 4.45
898115	27	4 1/2“ x 1/8“ x 5/8-11"	A30Q-BFX	13,300	10	$ 6.55
771410	27	5“ x 1/8“ x 7/8“	A30Q-BFX	12,250	10	$ 5.45
771408	27	5“ x 1/8“ x 5/8-11"	A30Q-BFX	12,250	10	$ 7.30
771417	27	6“ x 1/8“ x 7/8“	A30Q-BFX	10,200	10	$ 7.00
771415	27	6“ x 1/8“ x 5/8-11"	A30Q-BFX	10,200	10	$ 9.15
771422	27	7“ x 1/8“ x 7/8“	A30Q-BFX	8,600	10	$ 8.05
898116	27	7“ x 1/8“ x 5/8-11"	A30Q-BFX	8,600	10	$ 10.70
771430	27	9“ x 1/8“ x 7/8“	A30Q-BFX	6,650	10	$ 10.45
898118	27	9“ x 1/8“ x 5/8-11"	A30Q-BFX	6,650	10	$ 13.10

PREMIUM★★★
PIPELINE LIGHT GRINDING & CUTTING WHEELS
ZIRCONIA FOR STEEL - METAL - CASTINGS





27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
352336	27	4 1/2“ x 1/8“ x 7/8“	P1-ZA24S-BFX	13,300	10	$ 4.96
352334	27	4 1/2“ x 1/8“ x 5/8-11"	P1-ZA24S-BFX	13,300	5	$ 8.40
356632	27	5“ x 1/8“ x 7/8“	P5-ZA24S-BFX	12,250	10	$ 5.65
356633	27	5“ x 1/8“ x 5/8-11"	P5-ZA24S-BFX	12,250	5	$ 9.00
352339	27	7“ x 1/8“ x 7/8“	P7-ZA24S-BFX	8,600	10	$ 11.14
352338	27	7“ x 1/8“ x 5/8-11"	P7-ZA24S-BFX	8,600	5	$ 15.72
352341	27	9“ x 1/8“ x 7/8“	P9-ZA24S-BFX	6,650	10	$ 17.77
352340	27	9“ x 1/8“ x 5/8-11"	P9-ZA24S-BFX	6,650	5	$ 21.56

PREMIUM★★★
LONG LIFE - FOR HEAVY DUTY APPLICATIONS IN STEEL ONLY



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
772336	27	4 1/2“ x 1/4“ x 7/8“	A30S-BFX	13,300	10	$ 4.90
898122	27	4 1/2“ x 1/4“ x5/8-11"	A30S-BFX	13,300	5	$ 7.55
772703	27	5“ x 1/4“ x 7/8“	A30S-BFX	12,250	10	$ 5.40
240428	27	5“ x 1/4“ x 5/8-11"	A30S-BFX	12,250	5	$ 8.00
772711	27	6“ x 1/4“ x 7/8“	A30S-BFX	10,200	10	$ 6.15
772714	27	6“ x 1/4“ x 5/8-11"	A30S-BFX	10,200	5	$ 9.05
772720	27	7“ x 1/4“ x 7/8“	A30S-BFX	8,600	10	$ 7.25
898123	27	7“ x 1/4“ x 5/8-11"	A30S-BFX	8,600	5	$ 10.45
772722	27	9“ x 1/4“ x 7/8“	A30S-BFX	6,650	10	$ 9.80
898124	27	9“ x 1/4“ x 5/8-11"	A30S-BFX	6,650	5	$ 13.20

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK



27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
772333	27	4 1/2“ x 1/8“ x 7/8“	A30S-BFX	13,300	10	$ 4.30
34163273	27	4 1/2“ x 1/8“ x 5/8-11"	A30S-BFX	13,300	5	$ 7.10
772338	27	5“ x 1/8“ x 7/8“	A30S-BFX	12,250	10	$ 5.08
240434	27	5“ x 1/8“ x 5/8-11"	A30S-BFX	12,250	5	$ 7.70
772704	27	6“ x 1/8“ x 7/8“	A30S-BFX	10,200	10	$ 6.00
772709	27	6“ x 1/8“ x 5/8-11"	A30S-BFX	10,200	5	$ 8.95
772719	27	7“ x 1/8“ x 7/8“	A30S-BFX	8,600	10	$ 7.10
34163274	27	7“ x 1/8“ x 5/8-11"	A30S-BFX	8,600	5	$ 10.55
772721	27	9“ x 1/8“ x 7/8“	A30S-BFX	6,650	10	$ 9.40
34163275	27	9“ x 1/8“ x 5/8-11"	A30S-BFX	6,650	5	$ 12.60

PREMIUM★★★
ALU - FOR USE ON ALUMINUM AND NON-FERROS METALS



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
773067	27	4 1/2“ x 1/4“ x 7/8“	A36N-BFX	13,300	10	$ 7.06
913325	27	4 1/2“ x 1/4“ x 5/8-11"	A36N-BFX	13,300	5	$ 7.90
773419	27	5“ x 1/4“ x 7/8“	A36N-BFX	12,250	10	$ 8.25
773418	27	5“ x 1/4“ x 5/8-11"	A36N-BFX	12,250	5	$ 10.70
34163253	27	6“ x 1/4“ x 7/8“	A36N-BFX	10,200	10	$ 9.50
34163254	27	6“ x 1/4“ x 5/8-11"	A36N-BFX	10,200	5	$ 12.30
773420	27	7“ x 1/4“ x 7/8“	A36N-BFX	8,600	10	$ 10.12
913331	27	7“ x 1/4“ x 5/8-11"	A36N-BFX	8,600	5	$ 12.84
773422	27	9“ X 1/4“ X 7/8“	A36N-BFX	6,650	10	$ 13.10
913333	27	9“ x 1/4“ x 5/8-11"	A36N-BFX	6,650	5	$ 16.30

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK



27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
773068	27	4 1/2“ x 1/8“ x 7/8“	A36N-BFX	13,300	10	$ 5.42
913335	27	4 1/2“ x 1/8“ x 5/8-11"	A36N-BFX	13,300	5	$ 7.91

PREMIUM★★★
FOCUR - FOR USE ON ALL CAST MATERIALS AND FOUNDRY WORK



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
298225	27	4 1/2“ x 1/4“ x 7/8“	ZA240-BF	13,300	10	$ 8.86
298226	27	4 1/2“ x 1/4“ x 5/8-11"	ZA240-BF	13,300	5	$ 10.50
298140	27	7“ x 1/4“ x 7/8“	ZA240-BF	8,600	10	$ 13.34
298141	27	7“ x 1/4“ x 5/8-11"	ZA240-BF	8,600	5	$ 15.66
277243	27	9“ x 1/4“ x 7/8“	ZA240-BF	6,650	10	$ 18.24
277809	27	9“ x 1/4“ x 5/8-11"	ZA240-BF	6,650	5	$ 20.52



27

PREMIUM★★★

INOX - FOR USE ON STAINLESS STEEL

Certified Fe S CL FREE - no contamination



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
401257	27	4 1/2“ x 1/4“ x 7/8“	A30R-BFX	13,300	10	$ 5.55
401259	27	4 1/2“ x 1/4“ x 5/8-11"	A30R-BFX	13,300	5	$ 8.15
401260	27	5“ x 1/4“ x 7/8“	A30R-BFX	12,250	10	$ 6.35
401262	27	5“ x 1/4“ x 5/8-11"	A30R-BFX	12,250	5	$ 9.05
34163245	27	6“ x 1/4“ x 7/8“	A30R-BFX	10,200	10	$ 7.35
34163246	27	6“ x 1/4“ x 5/8-11"	A30R-BFX	10,200	5	$ 10.10
34163247	27	7“ x 1/4“ x 7/8“	A30R-BFX	8,600	10	$ 8.45
34163248	27	7“ x 1/4“ x 5/8-11"	A30R-BFX	8,600	5	$ 11.65
34163249	27	9“ x 1/4“ x 7/8“	A30R-BFX	6,650	10	$ 13.10
34163250	27	9“ x 1/4“ x 5/8-11"	A30R-BFX	6,650	5	$ 16.30



27

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
773047	27	4 1/2“ x 1/8“ x 7/8“	A30R-BFX	13,300	10	$ 4.45
773045	27	4 1/2“ x 1/8“ x 5/8-11"	A30R-BFX	13,300	5	$ 6.85

PREMIUM★★★

3 IN 1 - FOR USE ON STEEL, STAINLESS STEEL AND CAST MATERIALS

Certified Fe S CL FREE - no contamination



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
298221	27	4 1/2“ x 1/4“ x 7/8“	ZA24Q-BF	13,300	10	$ 8.42
298222	27	4 1/2“ x 1/4“ x 5/8-11"	ZA24Q-BF	13,300	5	$ 9.98
298122	27	7“ x 1/4“ x 7/8“	ZA24Q-BF	8,600	10	$ 12.67
298123	27	7“ x 1/4“ x 5/8-11"	ZA24Q-BF	8,600	5	$ 14.88
277245	27	9“ x 1/4“ x 7/8“	ZA24Q-BF	6,650	10	$ 17.33
277811	27	9“ x 1/4“ x 5/8-11"	ZA24Q-BF	6,650	5	$ 19.50



27

BASIC★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20008290	27	3“ x 1/4“ x 3/8"	A30Q-BF	20,100	10	$ 1.87
20006651	27	4“ x 1/4“ x 3/8"	A30Q-BF	15,300	10	$ 1.87
20006652	27	4“ x 1/4“ x 5/8"	A30Q-BF	15,300	10	$ 1.87
20006653	27	4 1/2“ x 1/4“ x 7/8"	A30Q-BF	13,300	10	$ 2.66
20006655	27	4 1/2“ x 1/4“ x 5/8-11"	A30Q-BF	13,300	5	$ 4.96
20006657	27	5“ x 1/4“ x 7/8"	A30Q-BF	12,250	10	$ 3.36
20010581	27	5“ x 1/4“ x 5/8-11"	A30Q-BF	12,250	5	$ 5.61
20016035	27	6“ x 1/4“ x 7/8"	A30Q-BF	10,200	10	$ 4.26
20016036	27	6“ x 1/4“ x 5/8-11"	A30Q-BF	10,200	5	$ 6.90
20006659	27	7“ x 1/4“ x 7/8"	A30Q-BF	8,600	10	$ 4.74
20006661	27	7“ x 1/4“ x 5/8-11"	A30Q-BF	8,600	5	$ 8.38
20006663	27	9“ x 1/4“ x 7/8"	A30Q-BF	6,650	10	$ 7.06
20006665	27	9“ x 1/4“ x 5/8-11"	A30Q-BF	6,650	5	$ 10.52

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, AND ROOT WORK



27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20006676	28	7“ x 1/4“ x 7/8"	A30Q-BF	8,600	10	$ 7.46
20006677	28	7“ x 1/4“ x 5/8-11"	A30Q-BF	8,600	10	$ 9.98
20006678	28	9“ x 1/4“ x 7/8"	A30Q-BF	6,650	10	$12.21
20006679	28	9“ x 1/4“ x 5/8-11"	A30Q-BF	6,650	10	$14.85

BASIC★

LIGHT GRINDING AND CUTTING WHEELS FOR STEEL | METAL



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20008271	27	3“ x 1/8“ x 3/8"	A30S-BF	20,100	10	$ 1.93
20006667	27	4“ x 1/8“ x 3/8"	A30S-BF	15,300	10	$ 1.93
20006668	27	4“ x 1/8“ x 5/8"	A30S-BF	15,300	10	$ 1.93
20006669	27	4 1/2“ x 1/8“ x 7/8"	A30S-BF	13,300	10	$ 2.32
20006670	27	4 1/2“ x 1/8“ x 5/8-11"	A30S-BF	13,300	5	$ 4.37
20006671	27	5“ x 1/8“ x 7/8"	A30S-BF	12,250	10	$ 2.79
20010579	27	5“ x 1/8“ x 5/8-11"	A30S-BF	12,250	5	$ 5.03
20006672	27	7“ x 1/8“ x 7/8"	A30S-BF	8,600	10	$ 4.23
20006673	27	7“ x 1/8“ x 5/8-11"	A30S-BF	8,600	5	$ 7.45
20006674	27	9“ x 1/8“ x 7/8"	A30S-BF	6,650	10	$ 5.99
20006675	27	9“ x 1/8“ x 5/8-11"	A30S-BF	6,650	5	$ 9.45



27

BASIC ★
PIPELINE LIGHT GRINDING AND CUTTING WHEEL ZIRCONIA FOR STEEL | METAL | CASTINGS





27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20010212	27	3“ x 1/4“ x 3/8"	ZA30S-BF	20,100	10	$ 6.24
20006680	27	4“ x 1/4“ x 3/8"	ZA30S-BF	15,300	10	$ 7.43
20006681	27	4“ x 1/4“ x 5/8"	ZA30S-BF	15,300	10	$ 7.43
20006682	27	4 1/2“ x 1/4“ x 7/8"	ZA30S-BF	13,300	10	$ 7.70
20006683	27	4 1/2“ x 1/4“ x 5/8-11"	ZA30S-BF	13,300	5	$ 9.12
20006684	27	5“ x 1/4“ x 7/8"	ZA30S-BF	12,250	10	$ 9.24
20010582	27	5“ x 1/4“ x 5/8-11"	ZA30S-BF	12,250	5	$ 10.95
20006685	27	7“ x 1/4“ x 7/8"	ZA30S-BF	8,600	10	$ 11.59
20006686	27	7“ x 1/4“ x 5/8-11"	ZA30S-BF	8,600	5	$ 13.62
20006687	27	9“ x 1/4“ x 7/8"	ZA30S-BF	6,650	10	$ 15.86
20006688	27	9“ x 1/4“ x 5/8-11"	ZA30S-BF	6,650	5	$ 17.84

BASIC ★
STONE - FOR USE ON STONE, CONCRETE, MASONRY AND BUILDING MATERIALS



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20007745	27	4“ x 1/4“ x 5/8"	C30S-BF	15,300	10	$ 2.53
20006654	27	4 1/2“ x 1/4“ x 7/8"	C30S-BF	13,300	10	$ 2.66
20006656	27	4 1/2“ x 1/4“ x 5/8-11"	C30S-BF	13,300	5	$ 5.19
20006658	27	5“ x 1/4“ x 7/8"	C30S-BF	12,250	10	$ 3.97
20010584	27	5“ x 1/4“ x 5/8-11"	C30S-BF	12,250	5	$ 5.89
20006660	27	7“ x 1/4“ x 7/8"	C30S-BF	8,600	10	$ 5.36
20006662	27	7“ x 1/4“ x 5/8-11"	C30S-BF	8,600	5	$ 8.74
20006664	27	9“ x 1/4“ x 7/8"	C30S-BF	6,650	10	$ 7.83
20006666	27	9“ x 1/4“ x 5/8-11"	C30S-BF	6,650	5	$ 11.56

LIGHT GRINDING, CUTTING, ON STONE, CONCRETE, MASONRY AND BUILDING MATERIALS



27

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20016031	28	7“ x 1/4“ x 7/8"	C30S-BF	8,600	10	$ 7.83
20016032	28	7“ x 1/4“ x 5/8-11"	C30S-BF	8,600	10	$ 10.01
20016033	28	9“ x 1/4“ x 7/8"	C30S-BF	6,650	10	$ 12.83
20016034	28	9“ x 1/4“ x 5/8-11"	C30S-BF	6,650	10	$ 15.00

COMBINATION WHEELS FOR LIGHT GRINDING, CUTTING, ON STONE, CONCRETE, MASONRY AND BUILDING MATERIALS



27

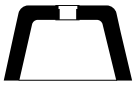
PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20010585	27	4 1/2“ x 1/8“ x 7/8“	C30S-BF	13,300	10	$ 2.37
20010586	27	4 1/2“ x 1/8“ x 5/8-11"	C30S-BF	13,300	5	$ 4.37

CUP WHEELS

PREMIUM★★★
FOR USE ON STEEL

Construction/materials able to be machined: Maximum stock removal performance and tool life for grinding jobs on large areas, heavy workpieces, edge grinding, bevelling and grinding welding seams.





11ZB

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20039228	11ZB	4" x 2" x 5/8 - 11"	A20	9,540	2	$ 20.56
20039229	11ZB	5" x 2" x 5/8 - 11"	A16	7,630	2	$ 25.77
20039230	11ZB	6" x 2" x 5/8 - 11"	A16	6,360	2	$ 29.89

CUP WHEELS

PREMIUM★★★
FOR USE ONCONCRETE, STONE AND BUILDING MATERIALS

Construction/materials able to be machined: Maximum stock removal rates and lifetime for grinding tasks on large areas. Grinding imperfections on concrete surfaces, bevelling and pre-grinding artificial stone and patio flags, surface grinding on marble, slate and granite.



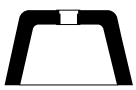


11ZB

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20039234	11ZB	4" x 2" x 5/8-11"	C20	9,540	2	$ 22.52
20039235	11ZB	5" x 2" x 5/8-11"	C20	7,630	2	$ 29.55
20039236	11ZB	6" x 2" x 5/8-11"	C20	6,360	2	$ 34.15

PREMIUM★★★
FOR USE ON ALL CAST MATERIALS/FOUNDRY WORK





11ZB

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20039231	11ZB	4" x 2" x 5/8-11"	ZA16	9,540	2	$ 31.50
20039232	11ZB	5" x 2" x 5/8-11"	ZA16	7,630	2	$ 41.75
20039233	11ZB	6" x 2" x 5/8-11"	ZA16	6,360	2	$ 47.75

CARBIDE BURRS

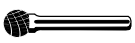
TYROLIT cemented carbide burrs are made from tried and tested types of cemented carbide corresponding to the latest technology. Production is performed on ultra-modern CNC automated grinding machines. The result is a highly efficient precision tool for every machining situation. In order to achieve the best grinding results and longest service life, it is important to choose the right machine and the right speed, cutter and tooth profile for the workpiece material being machined.





Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).





52KUD



52RBF

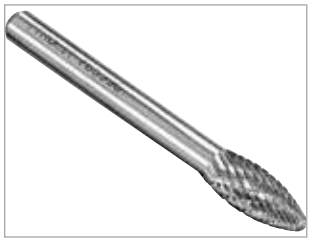


52SKM

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	*MAX RPM	STD PKG	USCTI	LIST PRICE
20019789	52KUD	1/8" x 1/8" x 1/8"	BALL	100,000	1		$ 10.75
20019726	52KUD	1/4" x 1/4" x 1/4"	BALL	65,000	1	SD-1	$ 23.00
20019727	52KUD	3/8" x 3/8" x 1/4"	BALL	55,000	1	SD-3	$ 25.85
20019729	52KUD	1/2" x 1/2" x 1/4"	BALL	35,000	1	SD-5	$ 36.00
20019791	52RBF	1/8" x 1/2" x 1/8"	RND NOSE TREE	100,000	1		$ 17.20
20019753	52RBF	1/4" x 5/8" x 1/4"	RND NOSE TREE	65,000	1	SF-1	$ 24.58
20019754	52RBF	3/8" x 3/4" x 1/4"	RND NOSE TREE	55,000	1	SF-3	$ 29.68
20019756	52RBF	1/2" x 1" x 1/4"	RND NOSE TREE	35,000	1	SF-5	$ 44.68
20019794	52SKM	1/8" x 3/8" x 1/8"	POINTED CONE	100,000	1		$ 19.43
20019784	52SKM	1/4" x 1/2" x 1/4"	POINTED CONE	65,000	1	SM-1	$ 28.08
20019785	52SKM	3/8" x 5/8" x 1/4"	POINTED CONE	55,000	1	SM-4	$ 37.10
20019786	52SKM	1/2" x 7/8" x 1/4"	POINTED CONE	35,000	1	SM-5	$ 45.88

*** MAXIMUM SAFE RPM BASED ON STANDARD SHANK LENGTH OR 1 3/4" AND MAXIMUM OVERHANG OF 3/8"**

Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).





52KEL

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	*MAX RPM	STD PKG	USCTI	LIST PRICE
20019793	52KEL	1/8" x 5/16" x 1/8"	BALL NOSE CONE	100,000	1		$ 23.30
20019781	52KEL	1/4" x 5/8" x 1/4"	BALL NOSE CONE	65,000	1	SL-1	$ 24.88
20019782	52KEL	3/8" x 1" x 1/4"	BALL NOSE CONE	55,000	1	SL-3	$ 36.33
20019783	52KEL	1/2" x 1 3/16" x 1/4"	BALL NOSE CONE	35,000	1	SL-4	$ 45.50

*** MAXIMUM SAFE RPM BASED ON STANDARD SHANK LENGTH OR 1 3/4" AND MAXIMUM OVERHANG OF 3/8"**

Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).





52SPG



52TRE



52WRC

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	*MAX RPM	STD PKG	USCTI	LIST PRICE
20019792	52SPG	1/8" x 1/2" x 1/8"	POINTED TREE	100,000	1		$ 22.20
20019758	52SPG	1/4" x 5/8" x 1/4"	POINTED TREE	65,000	1	SG-1	$ 23.20
20019759	52SPG	3/8" x 3/4" x 1/4"	POINTED TREE	55,000	1	SG-3	$ 29.25
20019780	52SPG	1/2" x 1" x 1/4"	POINTED TREE	35,000	1	SG-5	$ 43.03
20019790	52TRE	1/8" x 1/4" x 1/8"	OVAL	100,000	1		$ 23.03
20019741	52TRE	1/4" x 3/8" x 1/4"	OVAL	65,000	1	SE-1	$ 24.20
20019742	52TRE	3/8" x 5/8" x 1/4"	OVAL	55,000	1	SE-3	$ 39.38
20019743	52TRE	1/2" x 7/8" x 1/4"	OVAL	35,000		SE-5	$ 42.08
20019788	52WRC	1/8" x 1/2" x 1/8"	BALL NOSE CYL.	100,000	1		$ 22.25
20019710	52WRC	1/4" x 3/4" x 1/4"	BALL NOSE CYL.	65,000	1	SC-1	$ 21.43
20019711	52WRC	3/8" x 3/4" x 1/4"	BALL NOSE CYL.	55,000	1	SC-3	$ 28.00
20019713	52WRC	1/2" x 1" x 1/4"	BALL NOSE CYL.	35,000	1	SC-5	$ 43.68

*** MAXIMUM SAFE RPM BASED ON STANDARD SHANK LENGTH OR 1 3/4" AND MAXIMUM OVERHANG OF 3/8"**



Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	*MAX RPM	STD PKG	USCTI	LIST PRICE
20019787	52ZYA	1/8" x 1/2" x 1/8"	CYLINDER	100,000	1		$ 21.10
20019701	52ZYA	1/4" x 3/4" x 1/4"	CYLINDER	65,000	1	SA-1	$ 19.95
20019702	52ZYA	3/8" x 3/4" x 1/4"	CYLINDER	55,000	1	SA-3	$ 25.65
20019705	52ZYA	1/2" x 1" x 1/4"	CYLINDER	35,000	1	SA-5	$ 39.15
20019707	52ZYAS	1/4" x 3/4" x 1/4"	CYL.-END CUT	65,000	1	SB-1	$ 25.05
20019708	52ZYAS	3/8" x 3/4" x 1/4"	CYL.-END CUT	55,000	1	SB-3	$ 29.88
20019709	52ZYAS	1/2" x 1" x 1/4"	CYL.-END CUT	35,000	1	SB-5	$ 49.58

*** MAXIMUM SAFE RPM BASED ON STANDARD SHANK LENGTH OR 1 3/4" AND MAXIMUM OVERHANG OF 3/8"**



52ZYA



52ZYA-S



Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	*MAX RPM	STD PKG	USCTI	LIST PRICE
20019755	52RBF	3/8" x 3/4" x 1/4"	RND NOSE TREE	55,000	1	SF-3NF	$ 37.60
20019757	52RBF	1/2" x 1" x 1/4"	RND NOSE TREE	35,000	1	SF-5NF	$ 53.05
20019712	52WRC	3/8" x 3/4" x 1/4"	BALL NOSE CYL.	55,000	1	SC-3NF	$ 35.50
20019714	52WRC	1/2" x 1" x 1/4"	BALL NOSE CYL.	35,000		SC-5NF	$ 52.70
20019728	52KUD	3/8" x 3/8" x 1/4"	BALL	55,000	1	SD-3NF	$ 30.20
20019740	52KUD	1/2" x 1/2" x 1/4"	BALL	35,000	1	SD-5NF	$ 42.98
20019704	52ZYA	3/8" x 3/4" x 1/4"	CYLINDER	55,000	1	SA-3NF	$ 35.58
20019706	52ZYA	1/2" x 1" x 1/4"	CYLINDER	35,000	1	SA-5NF	$ 52.45

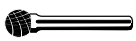
*** MAXIMUM SAFE RPM BASED ON STANDARD SHANK LENGTH OR 1 3/4" AND MAXIMUM OVERHANG OF 3/8"**



52RBF



52WRC



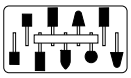
52KUD



52ZYA



Construction/materials able to be machined: Cemented carbide cutters are used on a wide range of hand held pneumatic or electric machines and industrial robots for virtually all materials. Maximum tool life and service life (20:1 compared to conventional mounted point).

	TYPE NO.	DIMENSIONS	STD PKG	MAX RPM	COMMENTS	LIST PRICE
  SETK	20039144	5pc BURR KIT	1	VARIES	Cemented carbide milling point set: 5 parts with shaft S 1/4" x 1 1/2" CONTENTS: TYPE — Dimens. 52ZYA — 1/2" x 1" 52WRC — 1/2" x 1" 52KUD — 1/2" x 1/2" 52RBF — 1/2" x 1" 52SKM — 1/2" x 7/8"	$ 176.90

PLUGS & CONES

Construction/materials able to be machined: Aluminum oxide for economical performance. Premium Zirconia for heavy duty grinding

Details: One of the most widely used forms of metal removal, portable grinding removes excess weld bead; notches, gates and risers; grinds off fins and parting line; cleans metal before welding, painting or plating; smooths rough surfaces.





Type 16



Type 17



Type 18



Type 18R

PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20039207	16	1 1/2" x 3" x 5/8-11"	A20	24,000	10	$ 9.75
20039208	16	2" x 3" x 5/8-11"	A20	18,100	10	$12.30
20039209	16	2 3/4" x 3 1/2" x 5/8-11"	A20	13,200	10	$18.38
20039240	16	1 1/2" x 3" x 5/8-11"	ZA20	24,000	10	$10.75
20039210	16	1 1/2" x 3" x 5/8-11"	ZA20	24,000	10	$10.75
20039211	16	2 3/4" x 3 -1/2" x 5/8-11"	ZA20	13,200	10	$19.05
20039212	17	1 1/2" x 3" x 5/8-11"	A20	24,000	10	$10.95
20039213	17	2" x 3" x 5/8-11"	A20	13,200	10	$12.55
20039214	17	1 1/2" x 3" x 5/8-11"	ZA20	24,000	10	$10.88
20039215	18	1 1/2" x 3" x 5/8-11"	A20	24,000	10	$11.13
20039216	18	1 1/2" x 4" x 5/8-11"	A20	24,000	10	$11.13
20039217	18	2" x 3" x 5/8-11"	A20	13,200	10	$13.00
20039218	18	1 1/2" x 3" x 5/8-11"	ZA20	24,000	10	$11.63
20039219	18	1 1/2" x 4" x 5/8-11"	ZA20	24,000	10	$11.63
20039220	18	2" x 3" x 5/8-11"	ZA20	13,200	10	$12.43
20039221	18R	1 1/2" x 3" x 5/8-11"	A20	24,000	10	$11.50
20039222	18R	1 1/2" x 4" x 5/8-11"	A20	24,000	10	$11.50
20039223	18R	2" x 3" x 5/8-11"	A20	13,200	10	$15.45
20039224	18R	1 1/2" x 3" x 5/8-11"	ZA20	24,000	10	$12.15
20039225	18R	1 1/2" x 4" x 5/8-11"	ZA20	24,000	10	$12.15
20039226	18R	2" x 3" x 5/8-11"	ZA20	13,200	10	$14.68





FINISHING

- MOUNTED FLAP WHEELS 44
- FLAP DISCS 47
- RONDELLER 51
- NATURAL FIBER DISCS 52
- SANDING DISCS 53
- BACKING PADS 56
- SHOP ROLLS 57
- WIRE BRUSHES 58

MOUNTED FLAP WHEELS

The flexibility of these tools allows them to adapt to any workpiece contour. With Flap Wheels the abrasive grain flaps are arranged radially around the tool's axis in the shape of a fan. Flap Wheels by TYROLIT are manufactured and tested in accordance with EN.

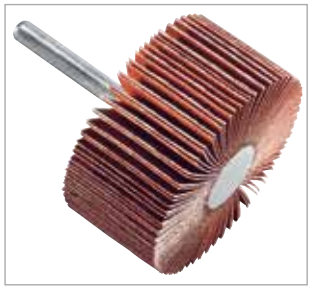
All TYROLIT mounted flap wheels can be used on steel, stainless steel, aluminum and non-ferrous metals



PREMIUM★★★

Construction/materials able to be machined: powerful rough cleaning wheel.

Details: Rust, paint, lacquer and underbody sealant easily removed. Surfaces prepared for welding, soldering or anodising. No clogging and smearing for an open structure.





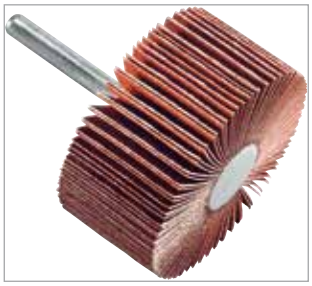
52LA

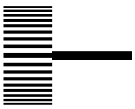
PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20019928	52LA	1" x 1/2" x 1/4"	40AO	26,000	10	$ 4.63
20019929	52LA	1" x 1/2" x 1/4"	60AO	26,000	10	$ 4.63
20019930	52LA	1" x 1/2" x 1/4"	80AO	26,000	10	$ 4.63
20019931	52LA	1" x 1/2" x 1/4"	120AO	26,000	10	$ 4.63
20019932	52LA	1" x 1/2" x 1/4"	180AO	26,000	10	$ 4.63
20019933	52LA	1" x 1/2" x 1/4"	240AO	26,000	10	$ 4.63
20019934	52LA	1" x 1" x 1/4"	40AO	26,000	10	$ 7.08
20019935	52LA	1" x 1" x 1/4"	60AO	26,000	10	$ 7.08
20019936	52LA	1" x 1" x 1/4"	80AO	26,000	10	$ 7.08
20019937	52LA	1" x 1" x 1/4"	120AO	26,000	10	$ 7.08
20019938	52LA	1" x 1" x 1/4"	180AO	26,000	10	$ 7.08
20019939	52LA	1" x 1" x 1/4"	240AO	26,000	10	$ 7.08
20019940	52LA	1-1/2" x 1/2" x 1/4"	40AO	20,000	10	$ 7.08
20019941	52LA	1-1/2" x 1/2" x 1/4"	60AO	20,000	10	$ 7.08
20019942	52LA	1-1/2" x 1/2" x 1/4"	80AO	20,000	10	$ 7.08
20019943	52LA	1-1/2" x 1/2" x 1/4"	120AO	20,000	10	$ 7.08
20019944	52LA	1-1/2" x 1/2" x 1/4"	180AO	20,000	10	$ 7.08
20019945	52LA	1-1/2" x 1/2" x 1/4"	240AO	20,000	10	$ 7.08
20019948	52LA	1-1/2" x 1" x 1/4"	40AO	20,000	10	$ 7.08
20019949	52LA	1-1/2" x 1" x 1/4"	60AO	20,000	10	$ 7.08
20019950	52LA	1-1/2" x 1" x 1/4"	80AO	20,000	10	$ 7.08
20019951	52LA	1-1/2" x 1" x 1/4"	120AO	20,000	10	$ 7.08
20019952	52LA	1-1/2" x 1" x 1/4"	180AO	20,000	10	$ 7.08
20019953	52LA	1-1/2" x 1" x 1/4"	240AO	20,000	10	$ 7.08

PREMIUM★★★

Construction/materials able to be machined: powerful rough cleaning wheel.

Details: Rust, paint, lacquer and underbody sealant easily removed. Surfaces prepared for welding, soldering or anodising. No clogging and smearing for an open structure.





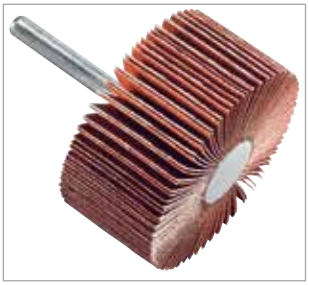
52LA

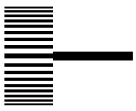
PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20019954	52LA	2" x 1/2" x 1/4"	40AO	16,000	10	$ 8.90
20019955	52LA	2" x 1/2" x 1/4"	60AO	16,000	10	$ 8.90
20019956	52LA	2" x 1/2" x 1/4"	80AO	16,000	10	$ 8.90
20019957	52LA	2" x 1/2" x 1/4"	120AO	16,000	10	$ 8.90
20019958	52LA	2" x 1/2" x 1/4"	180AO	16,000	10	$ 8.90
20019959	52LA	2" x 1/2" x 1/4"	240AO	16,000	10	$ 8.90
20019960	52LA	2" x 3/4" x 1/4"	40AO	16,000	10	$ 9.28
20019961	52LA	2" x 3/4" x 1/4"	60AO	16,000	10	$ 9.28
20019962	52LA	2" x 3/4" x 1/4"	80AO	16,000	10	$ 9.28
20019963	52LA	2" x 3/4" x 1/4"	120AO	16,000	10	$ 9.28
20019964	52LA	2" x 3/4" x 1/4"	180AO	16,000	10	$ 9.28
20019965	52LA	2" x 3/4" x 1/4"	240AO	16,000	10	$ 9.28
20019966	52LA	2" x 1" x 1/4"	40AO	16,000	10	$ 8.70
20019967	52LA	2" x 1" x 1/4"	60AO	16,000	10	$ 8.70
20019968	52LA	2" x 1" x 1/4"	80AO	16,000	10	$ 8.70
20019969	52LA	2" x 1" x 1/4"	120AO	16,000	10	$ 8.70
20019970	52LA	2" x 1" x 1/4"	180AO	16,000	10	$ 8.70
20019971	52LA	2" x 1" x 1/4"	240AO	16,000	10	$ 8.70
20019972	52LA	2-1/2" x 1/2" x 1/4"	40AO	13,500	10	$ 8.80
20019973	52LA	2-1/2" x 1/2" x 1/4"	60AO	13,500	10	$ 8.80
20019974	52LA	2-1/2" x 1/2" x 1/4"	80AO	13,500	10	$ 8.80
20019975	52LA	2-1/2" x 1/2" x 1/4"	120AO	13,500	10	$ 8.80
20019976	52LA	2-1/2" x 1/2" x 1/4"	180AO	13,500	10	$ 8.80
20019977	52LA	2-1/2" x 1/2" x 1/4"	240AO	13,500	10	$ 8.80
20019978	52LA	2-1/2" x 1" x 1/4"	40AO	13,500	10	$ 9.85
20019979	52LA	2-1/2" x 1" x 1/4"	60AO	13,500	10	$ 9.85
20019980	52LA	2-1/2" x 1" x 1/4"	80AO	13,500	10	$ 9.85
20019981	52LA	2-1/2" x 1" x 1/4"	120AO	13,500	10	$ 9.85
20019982	52LA	2-1/2" x 1" x 1/4"	180AO	13,500	10	$ 9.85
20019983	52LA	2-1/2" x 1" x 1/4"	240AO	13,500	10	$ 9.85
20019984	52LA	3" x 1/2" x 1/4"	40AO	10,000	10	$ 10.55
20019985	52LA	3" x 1/2" x 1/4"	60AO	10,000	10	$ 10.55
20019986	52LA	3" x 1/2" x 1/4"	80AO	10,000	10	$ 10.55
20019987	52LA	3" x 1/2" x 1/4"	120AO	10,000	10	$ 10.55
20019988	52LA	3" x 1/2" x 1/4"	180AO	10,000	10	$ 10.55
20019989	52LA	3" x 1/2" x 1/4"	240AO	10,000	10	$ 10.55
20019991	52LA	3" x 3/4" x 1/4"	60AO	10,000	10	$ 11.10
20019992	52LA	3" x 3/4" x 1/4"	80AO	10,000	10	$ 11.10
20019993	52LA	3" x 3/4" x 1/4"	120AO	10,000	10	$ 11.10
20019994	52LA	3" x 3/4" x 1/4"	180AO	10,000	10	$ 11.10

PREMIUM★★★

Construction/materials able to be machined: powerful rough cleaning wheel.

Details: Rust, paint, lacquer and underbody sealant easily removed. Surfaces prepared for welding, soldering or anodising. No clogging and smearing for an open structure.





52LA

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20019996	52LA	3" x 1" x 1/4"	40AO	10,000	10	$ 12.60
20019997	52LA	3" x 1" x 1/4"	60AO	10,000	10	$ 12.60
20019998	52LA	3" x 1" x 1/4"	80AO	10,000	10	$ 12.60
20019999	52LA	3" x 1" x 1/4"	120AO	10,000	10	$ 12.60
20020000	52LA	3" x 1" x 1/4"	180AO	10,000	10	$ 12.60
20020001	52LA	3" x 1" x 1/4"	240AO	10,000	10	$ 12.60
20020002	52LA	3" x 2" x 1/4"	40AO	10,000	10	$ 16.58
20020003	52LA	3" x 2" x 1/4"	60AO	10,000	10	$ 16.58
20020004	52LA	3" x 2" x 1/4"	80AO	10,000	10	$ 16.58
20020005	52LA	3" x 2" x 1/4"	120AO	10,000	10	$ 16.58
20020006	52LA	3" x 2" x 1/4"	180AO	10,000	10	$ 16.58

FLAP DISCS

TYROLIT Flap Discs provide our customers a group of products that combine high performance and exceptional material removal rates with smooth operation and a choice of finishes. Engineered for use in a variety of applications and with multiple choices for backing systems and finishing, TYROLIT Flap Discs can improve operator comfort without sacrificing performance. A versatile tool for weld removal, edge grinding and deburring, you get the best of both worlds with TYROLIT Flap Discs.



PREMIUM★★★

2 IN 1 - FOR USE ON STEEL AND STAINLESS STEEL CERAMIC GRAIN FOR EXCEPTIONAL PERFORMANCE

We at TYROLIT always endeavor to bring our customers innovative products and a comprehensive assortment. For this reason, TYROLIT has now extended the CERABOND family to include the new CERAMIC flap discs.

A unique bond system combined with a high-performance PREMIUM cloth offers the user greater abrasiveness. This flap disc is particularly suitable for stainless steels and demanding grinding applications. In addition, the unique bond system prevents premature grain break-out and leads to a long product lifetime.

The additional TOP SIZE coating ensures cooler grinding, allowing a longer lifetime and reducing discoloration on the workpiece surface.



TYPE 29/29 N

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
34043514	29	4 1/2" x 7/8"	CA40-B	13,300	10	$ 11.75
34166351	29	4 1/2" x 5/8-11"	CA40-B	13,300	5	$ 14.10
34043515	29	4 1/2" x 7/8"	CA60-B	13,300	10	$ 11.75
34166352	29	4 1/2" x 5/8-11"	CA60-B	13,300	5	$ 14.10
34043516	29	5" x 7/8"	CA40-B	12,250	10	$ 12.95
34166354	29	5" x 5/8-11"	CA40-B	12,250	5	$ 15.30
34043517	29	5" x 7/8"	CA60-B	12,250	10	$ 12.95
34166355	29 N	5" x 5/8-11"	CA60-B	12,250	5	$ 15.30
34057966	29 N	4 1/2" x 7/8"	CA40-B	13,300	10	$ 11.75
34057967	29 N	4 1/2" x 7/8"	CA60-B	13,300	10	$ 11.75
34057968	29 N	5" x 7/8"	CA40-B	12,250	10	$ 12.95
34057969	29 N	5" x 7/8"	CA60-B	12,250	10	$ 12.95

LONG LIFE FLAP DISCS (PLASTIC BACK-TRIMMABLE)

PREMIUM★★★

FOR USE ON STEEL AND STAINLESS STEEL

Certified Fe S CL FREE - no contamination

OUR MOST POPULAR flap disc uses high performance zirconium grain and outlasts all competitive flap discs by a wide margin. Trimmable plastic backing maximizes life and removal and allows operator to work in difficult corners for the duration of the flap disc.



PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
680369	27 N	4 1/2“ x 7/8“	ZA40-B	13,300	10	$ 9.76
680373	27 N	4 1/2“ x 7/8“	ZA60-B	13,300	10	$ 9.76
680376	27 N	4 1/2“ x 7/8“	ZA80-B	13,300	10	$ 9.76
680379	27 N	5“ x 7/8“	ZA40-B	12,250	10	$ 11.46
680380	27 N	5“ x 7/8“	ZA60-B	12,250	10	$ 11.46
680383	27 N	5“ x 7/8“	ZA80-B	12,250	10	$ 11.46
680387	27 N	7“ x 7/8“	ZA40-B	8,600	10	$ 17.14
680388	27 N	7“ x 7/8“	ZA60-B	8,600	10	$ 17.14
680389	27 N	7“ x 7/8“	ZA80-B	8,600	10	$ 17.14

PREMIUM ★★★ALU (FIBER BACKED)

FOR USE ON NON-FERROUS METALS



PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
707005	29	4 1/2“ x 7/8“	CA40-B	13,300	10	$ 6.70
34166334	29	4 1/2“ x 5/8-11"	CA40-B	13,300	5	$ 9.05
707007	29	4 1/2“ x 7/8“	CA60-B	13,300	10	$ 6.70
34166335	29	4 1/2“ x 5/8-11"	CA60-B	13,300	5	$ 9.05
707008	29	4 1/2“ x 7/8“	CA80-B	13,300	10	$ 6.70
34166336	29	4 1/2“ x 5/8-11"	CA80-B	13,300	5	$ 9.05
707010	29	4 1/2“ x 7/8“	CA120-B	13,300	10	$ 6.70
34166338	29	4 1/2“ x 5/8-11"	CA120-B	13,300	5	$ 9.05
707011	29	5“ x 7/8“	CA40-B	12,250	10	$ 8.50
34166339	29	5“ x 5/8-11"	CA40-B	12,250	5	$ 10.80
707012	29	5“ x 7/8“	CA60-B	12,250	10	$ 8.50
34166341	29	5“ x 5/8-11"	CA60-B	12,250	5	$ 10.80
707013	29	5“ x 7/8“	CA80-B	12,250	10	$ 8.50
34166342	29	5“ x 5/8-11"	CA80-B	12,250	5	$ 10.80
707014	29	5“ x 7/8“	CA120-B	12,250	10	$ 8.50
34166343	29	5“ x 5/8-11"	CA120-B	12,250	5	$ 10.80
707015	29	7“ x 7/8“	CA40-B	8,600	10	$ 13.55
34166344	29	7“ x 5/8-11"	CA40-B	8,600	5	$ 17.10
707016	29	7“ x 7/8“	CA60-B	8,600	10	$ 13.55
34166345	29	7“ x 5/8-11"	CA60-B	8,600	5	$ 17.10
707017	29	7“ x 7/8“	CA80-B	8,600	10	$ 13.55
34166347	29	7“ x 5/8-11"	CA80-B	8,600	5	$ 17.10
707018	29	7“ x 7/8“	CA120-B	8,600	10	$ 13.55
34166349	29	7“ x 5/8-11"	CA120-B	8,600	5	$ 17.10

FAST CUT FLAP DISCS (FIBER BACKED)

PREMIUM★★★

Certified Fe S CL FREE - no contamination

High performance zirconium grain gives the operator industry-leading removal rate to SAVE TIME



PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
160249	27	4 1/2“ x 7/8“	ZA40-B FastCut	13,300	10	$ 8.00
34166356	27	4 1/2“ x 5/8-11"	ZA40-B FastCut	13,300	5	$ 10.35
160251	27	4 1/2“ x 7/8“	ZA60-B FastCut	13,300	10	$ 8.00
34166357	27	4 1/2“ x 5/8-11"	ZA60-B FastCut	13,300	5	$ 10.35
160252	27	4 1/2“ x 7/8“	ZA80-B FastCut	13,300	10	$ 8.00
34166358	27	4 1/2“ x 5/8-11"	ZA80-B FastCut	13,300	5	$ 10.35
160254	27	5“ x 7/8“	ZA40-B FastCut	12,250	10	$ 9.40
34166359	27	5“ x 5/8-11"	ZA40-B FastCut	12,250	5	$ 11.80
160255	27	5“ x 7/8“	ZA60-B FastCut	12,250	10	$ 9.40
34166361	27	5“ x 5/8-11"	ZA60-B FastCut	12,250	5	$ 11.80
160256	27	5“ x 7/8“	ZA80-B FastCut	12,250	10	$ 9.40
34166384	27	5“ x 5/8-11"	ZA80-B FastCut	12,250	5	$ 11.80
160257	27	7“ x 7/8“	ZA40-B FastCut	8,600	10	$ 14.05
34166386	27	7“ x 5/8-11"	ZA40-B FastCut	8,600	5	$ 17.10
160258	27	7“ x 7/8“	ZA60-B FastCut	8,600	10	$ 14.05
34166386	27	7“ x 5/8-11"	ZA60-B FastCut	8,600	5	$ 17.10
160260	27	7“ x 7/8“	ZA80-B FastCut	8,600	10	$ 14.05
34166388	27	7“ x 5/8-11"	ZA80-B FastCut	8,600	5	$ 17.10

PREMIUM★★★

Certified Fe S CL FREE - no contamination

High performance zirconium grain gives the operator industry-leading removal rate to SAVE TIME



PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
528580	29	4" x 5/8"	ZA40-B FastCut	15,270	10	$ 7.20
643845	29	4" x 5/8"	ZA60-B FastCut	15,270	10	$ 7.20
643846	29	4" x 5/8"	ZA80-B FastCut	15,270	10	$ 7.20
160229	29	4 1/2“ x 7/8“	ZA40-B FastCut	13,300	10	$ 8.00
20041723	29	4 1/2“ x 5/8-11"	ZA40-B FastCut	13,300	5	$ 10.35
160230	29	4 1/2“ x 7/8“	ZA60-B FastCut	13,300	10	$ 8.00
20041724	29	4 1/2“ x 5/8-11"	ZA60-B FastCut	13,300	5	$ 10.35
160235	29	4 1/2“ x 7/8“	ZA80-B FastCut	13,300	10	$ 8.00
20041725	29	4 1/2“ x 5/8-11"	ZA80-B FastCut	13,300	5	$ 10.35
160240	29	5“ x 7/8“	ZA40-B FastCut	12,250	10	$ 9.40
20041726	29	5“ x 5/8-11"	ZA40-B FastCut	12,250	5	$ 11.80
160242	29	5“ x 7/8“	ZA60-B FastCut	12,250	10	$ 9.40
20041727	29	5“ x 5/8-11"	ZA60-B FastCut	12,250	5	$ 11.80
160244	29	5“ x 7/8“	ZA80-B FastCut	12,250	10	$ 9.40
20041728	29	5“ x 5/8-11"	ZA80-B FastCut	12,250	5	$ 11.80
34166360	29	6“ x 7/8“	ZA40-B FastCut	10,200	10	$ 11.72
34166401	29	6“ x 5/8-11"	ZA40-B FastCut	10,200	5	$ 14.60
34166362	29	6“ x 7/8“	ZA60-B FastCut	10,200	10	$ 11.72
34166403	29	6“ x 5/8-11"	ZA60-B FastCut	10,200	5	$ 14.60
34166363	29	6“ x 7/8“	ZA80-B FastCut	10,200	10	$ 11.72
34166404	29	6“ x 5/8-11"	ZA80-B FastCut	10,200	5	$ 14.60
160245	29	7“ x 7/8“	ZA40-B FastCut	8,600	10	$ 14.05
20041729	29	7“ x 5/8-11"	ZA40-B FastCut	8,600	5	$ 17.10
160246	29	7“ x 7/8“	ZA60-B FastCut	8,600	10	$ 14.05
20041730	29	7“ x 5/8-11"	ZA60-B FastCut	8,600	5	$ 17.10
160247	29	7“ x 7/8“	ZA80-B FastCut	8,600	10	$ 14.05
20041731	29	7“ x 5/8-11"	ZA80-B FastCut	8,600	5	$ 17.10

PREMIUM★★★COMBI

FOR USE ON STEEL AND STAINLESS STEEL



PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
742167	29	4 1/2“ x 7/8“	120-M Combi	13,300	5	$ 23.50
742168	29	5" x 7/8"	120-M Combi	12,250	5	$ 28.20

BASIC★FLAP DISC (FIBER BACKED)

FOR USE ON STEEL AND STAINLESS STEEL



PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
474872	29	4" x 5/8"	ZA40-B	15,300	10	$ 4.79
474874	29	4" x 5/8"	ZA60-B	15,300	10	$ 4.79
474875	29	4" x 5/8"	ZA80-B	15,300	10	$ 4.79
273884	29	4 1/2“ x 7/8“	ZA40-B	13,300	10	$ 4.93
20041736	29	4 1/2“ x 5/8-11"	ZA40-B	13,300	5	$ 7.20
273810	29	4 1/2“ x 7/8“	ZA60-B	13,300	10	$ 4.93
20041737	29	4 1/2“ x 5/8-11"	ZA60-B	13,300	5	$ 7.20
273871	29	4 1/2“ x 7/8“	ZA80-B	13,300	10	$ 4.93
20041739	29	4 1/2“ x 5/8-11"	ZA80-B	13,300	5	$ 7.20
273872	29	5“ x 7/8“	ZA40-B	12,250	10	$ 5.61
20041740	29	5“ x 5/8-11"	ZA40-B	12,250	5	$ 8.25
273873	29	5“ x 7/8“	ZA60-B	12,250	10	$ 5.61
20041741	29	5“ x 5/8-11"	ZA60-B	12,250	5	$ 8.25
273874	29	5“ x 7/8“	ZA80-B	12,250	10	$ 5.61
20041742	29	5“ x 5/8-11"	ZA80-B	12,250	5	$ 8.25



PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
320318	27	4 1/2“ x 7/8“	ZA40-B	13,300	10	$ 4.93
34166305	27	4 1/2“ x 5/8-11"	ZA40-B	13,300	5	$ 7.20
320320	27	4 1/2“ x 7/8“	ZA60-B	13,300	10	$ 4.93
34166307	27	4 1/2“ x 5/8-11"	ZA60-B	13,300	5	$ 7.20
320322	27	4 1/2“ x 7/8“	ZA80-B	13,300	10	$ 4.93
34166308	27	4 1/2“ x 5/8-11"	ZA80-B	13,300	5	$ 7.20
320319	27	5“ x 7/8“	ZA40-B	12,250	10	$ 5.61
34166324	27	5“ x 5/8-11"	ZA40-B	12,250	5	$ 8.25
320321	27	5“ x 7/8“	ZA60-B	12,250	10	$ 5.61
34166330	27	5“ x 5/8-11"	ZA60-B	12,250	5	$ 8.25
320323	27	5“ x 7/8“	ZA80-B	12,250	10	$ 5.61
34166332	27	5“ x 5/8-11"	ZA80-B	12,250	5	$ 8.25

RONDELLER - SEMI-FLEXIBLE GRINDING WHEELS

PREMIUM★★★

FOR USE ON ALUMINUM, STEEL AND STAINLESS STEEL

Certified Fe S CL FREE - no contamination

NEW - the new reformulated Rondeller has a newly - optimized knob shape and arrangement improving chip removal, cooling and enhancing overall removal rates and life by 50%. Grind and finish all metals in 1 step with the original semi-flexible grinding wheel. Ideal for curved and uneven surfaces.



TYPE 29 RON

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
908225	29RON	4 1/2“ x 7/8“	A36Q-BF	13,300	25	$ 6.68
908226	29RON	4 1/2“ x 7/8“	A60Q-BF	13,300	25	$ 6.68
908227	29RON	5“ x 7/8“	A36Q-BF	12,250	25	$ 7.55
908229	29RON	5“ x 7/8“	A60Q-BF	12,250	25	$ 7.55
170599	29RON	6“ x 7/8“	A36Q-BF	10,200	25	$ 8.80
908230	29RON	7“ x 7/8“	A36Q-BF	8,600	25	$ 9.20
908231	29RON	7“ x 7/8“	A60Q-BF	8,600	25	$ 9.20

TOUCH - SEMI-FLEXIBLE GRINDING WHEELS

BASIC★

FOR USE ON ALUMINUM, STEEL AND STAINLESS STEEL



27 T

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
236317	27T	4“ x 5/8“	WA46-BF	13,300	25	$ 3.70
236318	27T	4 1/2“ x 7/8“	WA46-BF	13,300	25	$ 4.40
236319	27T	5“ x 7/8“	WA46-BF	12,250	25	$ 5.10
236320	27T	7“ x 7/8“	WA46-BF	8,600	25	$ 6.20

TYROLIT - NATURAL FIBER DISC

A NEW UNIQUE DISC COMBINING GRINDING AGGRESSIVNESS WITH A HIGH LEVEL OF WORKING COMFORT

TYROLIT sanding discs offers you not only complete operator comfort but removal rates up to 3 times faster than flap discs, grinding wheels and sanding discs. No backing pad is needed, as it is an integral part of the disc. The structure of these TYROLIT discs are made from natural hemp fiber - in addition to preserving our natural resources this product is resistant to humidity and provides a strong but flexible structure which maximizes operator comfort and handling on all metal surfaces. Make the switch from flap discs, grinding wheels or sanding discs to the **TYROLIT DISCS** and **SAVE TIME** and **MONEY!!**



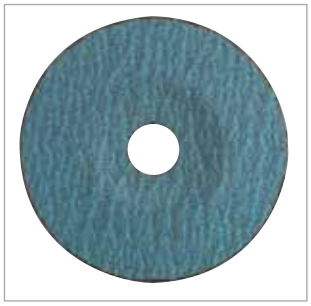
PREMIUM★★★

ZIRCONIUM - FOR USE ON STEEL AND ALUMINUM



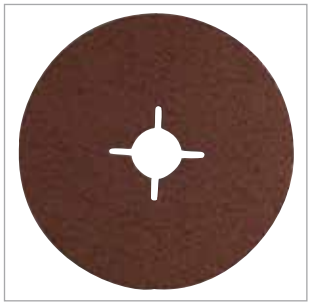
PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
706125	DISC N	4 1/2“ x 7/8“	ZA-36 P43 N	13,300	10	$ 4.80
706126	DISC N	5“ x 7/8“	ZA-36 P43 N	12,250	10	$ 5.50
706127	DISC N	7“ x 7/8“	ZA-36 P43 N	8,600	10	$ 7.15

PREMIUM★★★
ZIRCONIUM PLUS - FOR USE ON STEEL AND STAINLESS STEEL



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
706128	DISC N	4 1/2“ x 7/8“	ZA-36 P48 N	13,300	10	$ 5.28
706129	DISC N	5“ x 7/8“	ZA-36 P48 N	12,250	10	$ 5.90
706130	DISC N	7“ x 7/8“	ZA-36 P48 N	8,600	10	$ 7.70

PREMIUM★★★
CERAMIC - FOR USE ON STAINLESS STEEL AND OTHER HIGH ALLOYED STEELS

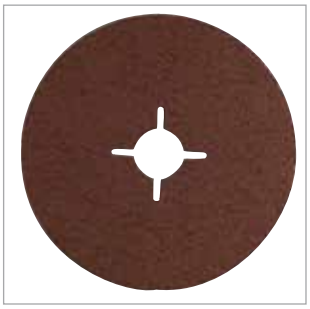


PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
712259	DISC N	4 1/2 “ x 7/8“	CA-36 P93 N	13,300	10	$ 6.85
712268	DISC N	5“ x 7/8“	CA-36 P93 N	12,250	10	$ 8.05
712269	DISC N	7“ x 7/8“	CA-36 P93 N	8,600	10	$ 9.85

RESIN FIBER SANDING DISCS

PREMIUM★★★

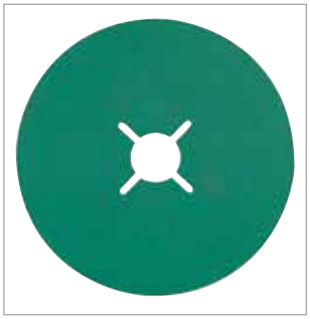
ALUMINUM OXIDE - FOR STEEL AND ALUMINUM



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20908262	DISC V	4 1/2" x 7/8“	A16 P02 S4	13,300	25	$ 1.88
706049	DISC V	4 1/2" x 7/8“	A24 P02 S4	13,300	25	$ 1.47
706050	DISC V	4 1/2" x 7/8“	A36 P02 S4	13,300	25	$ 1.36
706051	DISC V	4 1/2" x 7/8“	A40 P02 S4	13,300	25	$ 1.68
706052	DISC V	4 1/2" x 7/8“	A60 P02 S4	13,300	25	$ 1.29
706053	DISC V	4 1/2" x 7/8“	A80 P02 S4	13,300	25	$ 1.18
20908256	DISC V	4 1/2" x 7/8“	A100 P02 S4	13,300	25	$ 1.18
706054	DISC V	4 1/2" x 7/8“	A120 P02 S4	13,300	25	$ 1.18
20908270	DISC V	5" x 7/8"	A16 P02 S4	12,250	25	$ 1.62
706055	DISC V	5" x 7/8"	A24 P02 S4	12,250	25	$ 1.55
706056	DISC V	5" x 7/8"	A36 P02 S4	12,250	25	$ 1.51
706057	DISC V	5" x 7/8"	A40 P02 S4	12,250	25	$ 1.75
706058	DISC V	5" x 7/8"	A60 P02 S4	12,250	25	$ 1.42
706059	DISC V	5" x 7/8"	A80 P02 S4	12,250	25	$ 1.32
20908264	DISC V	5" x 7/8"	A100 P02 S4	12,250	25	$ 1.32
706060	DISC V	5" x 7/8"	A120 P02 S4	12,250	25	$ 1.32
20908278	DISC V	7" X 7/8"	A16 P02 S4	8,600	25	$ 2.18
706061	DISC V	7" x 7/8"	A24 P02 S4	8,600	25	$ 2.78
706063	DISC V	7" x 7/8"	A36 P02 S4	8,600	25	$ 2.36
706064	DISC V	7" x 7/8"	A40 P02 S4	8,600	25	$ 2.25
706065	DISC V	7" x 7/8"	A60 P02 S4	8,600	25	$ 2.14
706066	DISC V	7" x 7/8"	A80 P02 S4	8,600	25	$ 2.01
20908272	DISC V	7" x 7/8"	A100 P02 S4	8,600	25	$ 2.01
706067	DISC V	7" x 7/8"	A120 P02 S4	8,600	25	$ 2.01

PREMIUM★★★

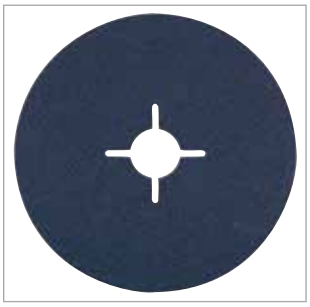
ZIRCONIA - FOR STEEL AND STAINLESS STEEL



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
706093	DISC V	4 1/2" x 7/8“	ZA-36 P47	13,300	25	$ 2.08
706094	DISC V	4 1/2" x 7/8“	ZA-60 P47	13,300	25	$ 1.82
706095	DISC V	4 1/2" x 7/8“	ZA-80 P47	13,300	25	$ 1.71
706096	DISC V	4 1/2" x 7/8“	ZA-120 P47	13,300	25	$ 2.05
706097	DISC V	5“ x 7/8“	ZA-36 P47	12,250	25	$ 2.25
706098	DISC V	5“ x 7/8“	ZA-60 P47	12,250	25	$ 2.01
706099	DISC V	5“ x 7/8“	ZA-80 P47	12,250	25	$ 1.90
706100	DISC V	5“ x 7/8“	ZA-120 P47	12,250	25	$ 2.30
706101	DISC V	7“ x 7/8“	ZA-36 P47	8,600	25	$ 3.38
706102	DISC V	7“ x 7/8“	ZA-60 P47	8,600	25	$ 3.03
706105	DISC V	7“ x 7/8“	ZA-80 P47	8,600	25	$ 2.82
706106	DISC V	7“ x 7/8“	ZA-120 P47	8,600	25	$ 2.60

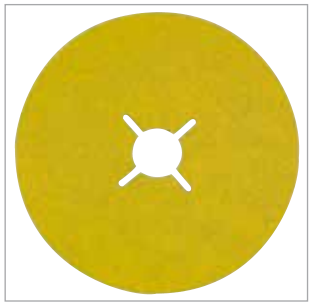
RESIN FIBER SANDING DISCS

PREMIUM★★★
ZIRCONIUM - FOR HEAVY DUTY USE ON STEEL AND ALUMINUM



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
706068	DISC V	4 1/2" x 7/8“	ZA24 P43 S4	13,300	25	$ 2.55
706069	DISC V	4 1/2" x 7/8“	ZA36 P43 S4	13,300	25	$ 2.45
706071	DISC V	4 1/2" x 7/8“	ZA40 P43 S4	13,300	25	$ 2.45
706072	DISC V	4 1/2" x 7/8“	ZA60 P43 S4	13,300	25	$ 2.33
706073	DISC V	4 1/2" x 7/8“	ZA80 P43 S4	13,300	25	$ 2.15
706074	DISC V	4 1/2" x 7/8“	ZA120 P43 S4	13,300	25	$ 2.00
706075	DISC V	5“ x 7/8“	ZA24 P43 S4	12,250	25	$ 2.85
706076	DISC V	5“ x 7/8“	ZA36 P43 S4	12,250	25	$ 2.75
706077	DISC V	5“ x 7/8“	ZA40 P43 S4	12,250	25	$ 2.75
706078	DISC V	5“ x 7/8“	ZA60 P43 S4	12,250	25	$ 2.60
706079	DISC V	5“ x 7/8“	ZA80 P43 S4	12,250	25	$ 2.40
706082	DISC V	5“ x 7/8“	ZA120 P43 S4	12,250	25	$ 2.25
706084	DISC V	7“ x 7/8“	ZA24 P43 S4	8,600	25	$ 2.35
706088	DISC V	7“ x 7/8“	ZA36 P43 S4	8,600	25	$ 3.20
706089	DISC V	7“ x 7/8“	ZA40 P43 S4	8,600	25	$ 3.20
706090	DISC V	7“ x 7/8“	ZA60 P43 S4	8,600	25	$ 3.10
706091	DISC V	7“ x 7/8“	ZA80 P43 S4	8,600	25	$ 2.95
706092	DISC V	7“ x 7/8“	ZA120 P43 S4	8,600	25	$ 2.80

PREMIUM★★★
CERAMIC - FOR USE ON STAINLESS STEEL AND HIGH-ALLOYED STEELS



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
706107	DISC V	4 1/2" x 7/8“	CA36 P93 S4	13,300	25	$ 3.10
706108	DISC V	4 1/2" x 7/8“	CA60 P93 S4	13,300	25	$ 2.75
706109	DISC V	4 1/2" x 7/8“	CA80 P93 S4	13,300	25	$ 2.58
706110	DISC V	4 1/2" x 7/8“	CA120 P93 S4	13,300	25	$ 2.48
706111	DISC V	5“ x 7/8“	CA36 P93 S4	12,250	25	$ 3.70
706114	DISC V	5“ x 7/8“	CA60 P93 S4	12,250	25	$ 3.30
706116	DISC V	5“ x 7/8“	CA80 P93 S4	12,250	25	$ 3.10
706117	DISC V	5“ x 7/8“	CA120 P93 S4	12,250	25	$ 2.95
706119	DISC V	7“ x 7/8“	CA36 P93 S4	8,600	25	$ 5.15
706120	DISC V	7“ x 7/8“	CA60 P93 S4	8,600	25	$ 4.50
706123	DISC V	7“ x 7/8“	CA80 P93 S4	8,600	25	$ 4.30
706124	DISC V	7“ x 7/8“	CA120 P93 S4	8,600	25	$ 4.10

NYLON BACKING PADS

FOR RESIN FIBER SANDING DISCS

BASIC★

UNIVERSAL BACKING PAD WITH IMPACT RESISTANT PLASTIC FOR LONG LIFE





Pad BASIC

PART NO.	DIAMETER/THREAD	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
709999	4 1/2“ x 5/8-11"	HARD	13,300	1	$ 48.25
710002	5“ x 5/8-11"	HARD	12,250	1	$ 49.50
710005	7“ x 5/8-11"	HARD	8,600	1	$ 63.00

PREMIUM★★★

UNIVERSAL PREMIUM BACKING PAD WITH SPECIAL AIR FLOW DESIGN FOR COOL OPERATION AND EXTRA DISC LIFE





Pad UNI

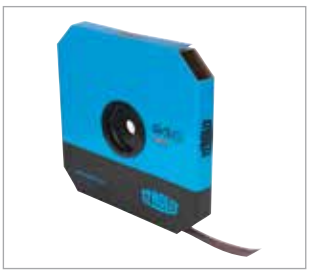
PART NO.	DIAMETER/THREAD	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
020010	4 1/2“ x 5/8-11"	UNIVERSAL	13,300	1	$ 44.00
020006	5“ x 5/8-11"	UNIVERSAL	12,250	1	$ 45.50

SHOP ROLLS

Aluminum oxide grain for polishing, finishing, sanding and deburring of all materials including steel, stainless steel, aluminum, brass, plastics, paint, lacquers, composites, gel coats, wood and stone. High quality flexible cloth backing allows for easy and clean tearing to desired length. Also ideal for contour work and for use on turning parts in lathes. Every roll comes in an easy to use cardboard dispenser.
**Note - all TYROLIT rolls are in extra long 54 yard lengths for better value versus industry standard 50 yard rolls.



BASIC★
A-BO1 C JX



Roll

PART NO.	DESCRIPTION	GRIT	BACKING	LIST PRICE
705824	1" x 54 yards	40	C JX	$ 48.58
705825	1" x 54 yards	60	C JX	$ 43.88
705826	1" x 54 yards	80	C JX	$ 37.30
705828	1" x 54 yards	100	C JX	$ 34.98
705830	1" x 54 yards	120	C JX	$ 34.98
705831	1" x 54 yards	150	C JX	$ 34.98
705832	1" x 54 yards	180	C JX	$ 34.98
705833	1" x 54 yards	220	C JX	$ 34.98
705834	1" x 54 yards	240	C JX	$ 34.98
705836	1" x 54 yards	320	C JX	$ 34.98
705837	1" x 54 yards	400	C JX	$ 34.98
705854	1 1/2" x 54 yards	40	C JX	$ 67.68
705855	1 1/2" x 54 yards	60	C JX	$ 57.58
705856	1 1/2" x 54 yards	80	C JX	$ 54.25
705857	1 1/2" x 54 yards	100	C JX	$ 50.30
705858	1 1/2" x 54 yards	120	C JX	$ 50.30
705859	1 1/2" x 54 yards	150	C JX	$ 50.30
705860	1 1/2" x 54 yards	180	C JX	$ 50.30
705861	1 1/2" x 54 yards	220	C JX	$ 50.30
705862	1 1/2" x 54 yards	240	C JX	$ 50.30
705863	1 1/2" x 54 yards	320	C JX	$ 50.30
705864	1 1/2" x 54 yards	400	C JX	$ 50.30
705885	2" x 54 yards	40	C JX	$ 88.38
705886	2" x 54 yards	60	C JX	$ 77.75
705887	2" x 54 yards	80	C JX	$ 70.15
705888	2" x 54 yards	100	C JX	$ 66.50
705889	2" x 54 yards	120	C JX	$ 66.50
705891	2" x 54 yards	150	C JX	$ 66.50
705892	2" x 54 yards	180	C JX	$ 66.50
705894	2" x 54 yards	220	C JX	$ 66.50
705895	2" x 54 yards	240	C JX	$ 66.50
705896	2" x 54 yards	320	C JX	$ 66.50
705898	2" x 54 yards	400	C JX	$ 66.50

WIRE CUP BRUSHES

Construction/materials able to be machined: Steel wire for light duty work in steel, INOX/STAINLESS WIRE for light duty work in stainless and aluminum.

Details: Brass Coated Steel wire For weld preparation and rust removal. Crimped wire cups for medium stock removal of larger areas.



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20040086	Cup Brush	3" x 5/8-11"	Steel .012 crimped	13,000	6	$ 10.75
20020102	Cup Brush	4" x 5/8-11"	Steel .020 crimped	8,600	1	$ 33.61
20020104	Cup Brush	6" x 5/8-11"	Steel .020 crimped	6,000	1	$ 45.01
20040087	Cup Brush	3" x 5/8-11"	Stainless Steel .012 crimped	13,000	6	$ 36.30

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.

Details: Twist Knot cup bushes now come with a KNOCK-OFF RING on 4 - 6” sizes for greater strength and longer life. Great for heavy duty stock removal.



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20040083	Cup Brush	2 3/4" x 5/8-11"	Steel .020 twist knot	15,000	6	$ 16.27
20040084	Cup Brush	2 3/4" x 5/8-11"	Steel .015 twist knot	15,000	6	$ 19.20
20040099	Cup Brush	4" x 5/8-11"	Steel .020 knot w/bridle	8,600	12	$ 53.52
20040085	Cup Brush	2 3/4" x 5/8-11"	Stainless Steel .020 twist knot	15,000	6	$ 26.78
20020110	Cup Brush	6" x 5/8-11"	Stainless Steel .020 knot w/bridle	6,000	1	$ 105.88

SPECIAL GUARDED CUP BRUSHES FOR OPERATOR SAFETY

Construction/materials able to be machined: Brass Coated Steel wire For weld preparation and rust removal. Crimped wire cups for medium stock removal of larger areas.

Details: Our patented NEW GUARDED CUPS come with a see through shield designed so you can see the work piece and be protected against wire projections.



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20020127	Cup Brush	2 3/4" x 5/8-11"	Steel .020 Knot With Guard	15,000	1	$ 25.88
20020129	Cup Brush	3" x 5/8-11"	Steel 12x.009 Cable Crimped With Guard	13,000	1	$ 27.45
20020128	Cup Brush	3" x 5/8-11"	Steel .012 Crimped With Guard	13,000	1	$ 28.38

WIRE WHEEL SAUCER

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.

Details: For hard to reach spots, angles and corners.



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20021810	Saucer cup	4 1/2" x 5/8-11"	Steel .020 Twist knot	12,000	1	$ 27.58

WIRE WHEELS

STRINGER BEAD BRUSHES FOR PIPE WORK

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.

Details: 1/4” face wide for removal of welding and forge Scale, weld cleaning at tube Joints.



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20020058	Stringer Bead	4" x 5/8-11"	Steel .020 Stringer Bead	20,000	6	$ 27.02
20025272	Stringer Bead	5" x 5/8-11"	Steel .020 Stringer Bead	12,500	10	$ 46.53
20040090	Stringer Bead	6" x 5/8-11"	Steel .020 Stringer Bead	12,500	10	$ 46.95
20040080	Stringer Bead	7" x 5/8-11"	Steel .020 Stringer Bead	9,000	10	$ 52.53
20020060	Stringer Bead	4" x 5/8-11"	Stainless Steel .020 Stringer Bead	20,000	6	$ 40.44
20022438	Stringer Bead	5" x 5/8-11"	Stainless Steel .020 Stringer Bead	12,500	10	$ 61.55

HEAVY DUTY TWIST KNOT WIRE WHEELS 1/2" FACE FOR SURFACE CLEANING

Construction/materials able to be machined: Steel wire For heavy duty applications in steel fabrication. INOX/STAINLESS WIRE For fabrication work using stainless steel and aluminum.

Details: 1/2” face width for longer working life and higher stock removal.



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20020095	HD Twist Knot	4" x 5/8-11"	Steel .020 Twist Knot	20,000	6	$ 20.40
20020091	HD Twist Knot	4 1/2" x 5/8-11"	Steel .020 Twist Knot	15,000	6	$ 20.88
20022027	HD Twist Knot	6" x 5/8-11"	Steel .020 Twist Knot	12,500	10	$ 42.85

WIRE WHEELS

1/4" SHANK TWISTED WIRE WHEELS



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20012250	Twist Knot	3/4" x 1/4" Shank	Knot Steel .020	20,000	10	$ 30.55
20020055	Twist Knot	1" x 1/4" Shank	Knot Steel .020	20,000	10	$ 28.50

1/4" SHANK CRIMPED WIRE WHEEL



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20013110	Crimped - Shank	1/2" x 1/4" Shank	Crimped Steel .020	20,000	10	$ 11.30

1/4" SHANK END BRUSHES - CRIMPED WIRE



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20014210	Crimped - Shank	3/4" x 1/4" Shank	Crimped Steel .020	20,000	10	$ 12.48

1/4" SHANK END BRUSHES - CRIMPED WIRE



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20020054	Crimped - Shank	1" x 1/4" Shank	Crimped Steel .020	20,000	10	$ 13.13

CRIMPED WIRE WHEELS

FOR BENCH/PEDESTAL GRINDERS

Construction/materials able to be machined: For removal of rust, paint, scale edges, etc. Surface preperation on a variety of materials.

Detalls: Our line of wide faced crimped brushes are primarily suited for fixed grinders, but wheels up to 7“ can also be used in portable applications. They come with a built in multi-bore adaptor to fit up to 8 different spindle diameters.



PART NO.	TYPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
20020114	Bench Wheels	6" x 3/4" x 1/2 - 2"	Crimped .012	6,500	1	$ 21.40
20020117	Bench Wheels	8" x 11/16" x 1/2 - 2"	Crimped .015	4,500	1	$ 26.83

HAND BRUSHES





PART NO.	TYPE	SPECIFICATION	STD PKG	LIST PRICE
20020122	Hand Brush	Wooden Curved Handle Scratch, 3 x 19 Rows, .012" ST	12	$ 4.58
20020123	Hand Brush	Wooden Curved Handle Scratch, 3 x 19 Rows, .012" SS	12	$ 7.33
20020124	Hand Brush	Wooden Shoe Handle Scratch Brush, 4 x 19 Rows, .012" ST	12	$ 4.68
20020125	Hand Brush	**Wooden Shoe Handle Scratch Brush, 4 x 19 Rows, .012" SS**	12	$ 8.05
20020126	Hand Brush	**Wooden Handle Small Inspection Brush, 3 x 7 Rows, .006" SS**	36	$ 5.90
20020130	Hand Brush	Plastic Handle VIP Brush, .014" ST	24	$ 3.08
20020131	Hand Brush	**Plastic Handle VIP Brush, .012" ST**	24	$ 3.08





SPECIALTY WHEELS

– BENCH GRINDING WHEELS 64

Specification designation and overview of specialty abrasives

Specification as short characterisation of grinding tool

Example

89A		60	M	5	V	217
Abrasive description		**Grit sizes Description**	**Hardness**	**Structure**	**Bond**	**Bond designation**
A/10A	Regular aluminium oxide	Grit size indication in mesh (sieve size per inch) **14 – 36 course** **46 – 60 Medium** **80 – 220 Fine** **800 – 1200 Very fine**	Hardness ascends alphabetically e.g. **G = soft** **R = hard**	The higher the number, the more open the wheel is.	**V =** Vitrified-bonded **B =** Resin-bonded **E =** Elastic-bonded **G =** Galvanic-bonded	Internal code, which defines bond type.
51A	Mixture of 88A and 10A					
80A	Mixture of 88A and special aluminium oxide					
92A	Mixture of 89A and special aluminium oxide					
97A	Special aluminium oxide					
454A	Mixture of sintered aluminium oxide and 89A					
C	Green silicon carbide					
1C	Black silicon carbide					
50C	Silicon carbide mixture Green/black					

Example of a vitrified-bonded TYROLIT grinding wheel with conventional abrasive grain 89A 60 M5 V217.

Materials table – an example

	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
89A		○	●	○	●	○						●
93A			●		●	●						●

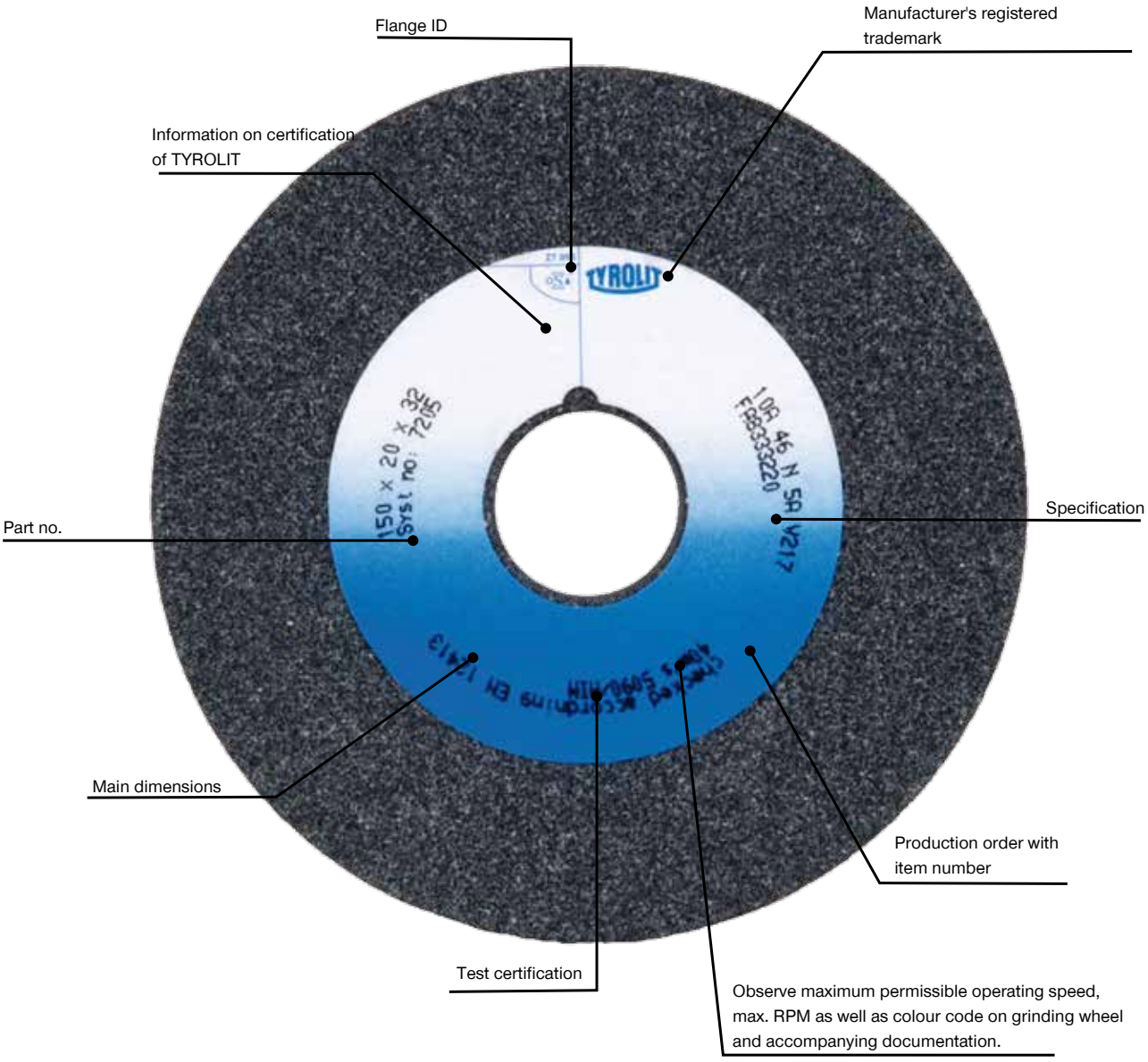
● Extremely suitable

○ Limited suitability

EXPLANATION OF LABELS
GRINDING WHEEL - BENCH/PEDESTAL GRINDER

DESIGNATION

Products from TYROLIT are labelled such that all important information can be directly read off right away.



CONVENTIONAL CERAMICS



Product advantages:

- Grinding wheel specification can be used universally
- Reducing ring set (universally suitable, for common machine shafts)
- Extremely smooth running
- Stackable individual packaging to suit racks

Application tips:

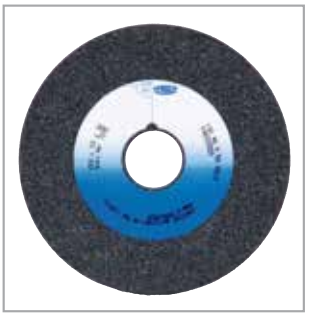
- Sharpening a cemented carbide tipped tool
- Regrinding a HSS tool

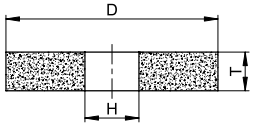
Safety information:

- Take note of the safety information, particularly in the case of maximum operating speed of 40 m/s

NON AND LOW-ALLOYED STEELS

	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
A		●	○							○	●	



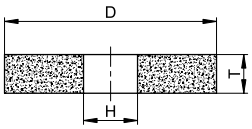


Shape 1

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
188807	1	6" x 3/4 x 1"	A36-COA	5,090	1	$ 25.88
188804	1	6" x 3/4 x 1"	A60-MED	5,090	1	$ 25.88
188805	1	6" x 3/4 x 1"	A80-FINE	5,090	1	$ 25.88
188809	1	6" x 1" x 1"	A36-COA	5,090	1	$ 31.30
830038	1	6" x 1" x 1"	A46-COA	5,090	1	$ 31.30
188815	1	6" x 1" x 1"	A60-MED	5,090	1	$ 31.30
188811	1	6" x 1" x 1"	A80-FINE	5,090	1	$ 31.30
188837	1	7" x 3/4 x 1"	A80-FINE	4,240	1	$ 35.25
188840	1	7" x 3/4 x 1"	A36-COA	4,240	1	$ 35.25
188829	1	7" x 3/4 x 1"	A60-MED	4,240	1	$ 35.25
188826	1	7" x 1" x 1"	A36-COA	4,240	1	$ 39.25
188834	1	7" x 1" x 1"	A60-MED	4,240	1	$ 39.25
188825	1	7" x 1" x 1"	A80-FINE	4,240	1	$ 39.25
188839	1	8" x 3/4 x 1"	A36-COA	3,810	1	$ 44.55
188833	1	8" x 3/4 x 1"	A60-MED	3,810	1	$ 44.55
188835	1	8" x 3/4 x 1"	A80-FINE	3,810	1	$ 44.55
188820	1	8" x 1" x 1"	A36-COA	3,810	1	$ 47.70
864749	1	8" x 1" x 1"	A46-COA	3,810	1	$ 47.70
188810	1	8" x 1" x 1"	A60-MED	3,810	1	$ 47.70
188817	1	8" x 1" x 1"	A80-FINE	3,810	1	$ 47.70

NON AND LOW-ALLOYED STEELS





Shape 1

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
188818	1	10" x 1" x 1 1/2"	A24-EX.COA	3,050	1	$ 72.25
188838	1	10" x 1" x 1 1/2"	A36-COA	3,050	1	$ 72.25
188823	1	10" x 1" x 1 1/2"	A60-MED	3,050	1	$ 72.25
188821	1	10" x 1" x 1 1/2"	A80-FINE	3,050	1	$ 72.25
188832	1	10" x 1 1/2" x 1 1/2"	A24-EX.COA	3,050	1	$ 95.30
188830	1	10" x 1 1/2" x 1 1/2"	A36-COA	3,050	1	$ 95.30
188814	1	10" x 1 1/2" x 1 1/2"	A60-MED	3,050	1	$ 95.30
150351	1	12" x 1 1/2" x 1 1/2"	A24-EX.COA	2,540	1	$ 146.50
375828	1	12" x 1 1/2" x 1 1/2"	A36-COA	2,540	1	$ 146.50
437137	1	12" x 1 1/2" x 1 1/2"	A60-MED	2,540	1	$ 146.50
042966	1	12" x 2" x 1 1/2"	A24-EX.COA	2,540	1	$ 153.25
103399	1	12" x 2" x 1 1/2"	A36-COA	2,540	1	$ 153.25
089913	1	12" x 2" x 1 1/2"	A60-MED	2,540	1	$ 153.25
053851	1	14" x 2" x 1 1/2"	A24-EX.COA	2,180	1	$ 213.65
047457	1	14" x 2" x 1 1/2"	A36-COA	2,180	1	$ 213.65
124261	1	14" x 2" x 1 1/2"	A60-MED	2,180	1	$ 213.65

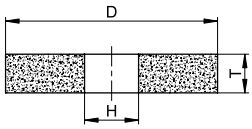





CEMENTED CARBIDE

	Alu	Non and low-alloyed steels		High-alloyed steels		HSS	INOX	Cemented carbide	Industrial ceramics	Cast iron	Dry grinding	Wet grinding
		Unhardened	Hardened	Unhardened	Hardened							
C					○	○	○	●		●	●	





Shape 1

PART NO.	SHAPE	DIMENSIONS	SPECIFICATION	MAX RPM	STD PKG	LIST PRICE
281497	1	6" x 3/4" x 1"	C60-COA	5,090	1	$ 45.55
281515	1	6" x 3/4" x 1"	C80-MED	5,090	1	$ 45.55
281520	1	6" x 3/4" x 1"	C100-FINE	5,090	1	$ 45.55
281512	1	6" x 1" x 1"	C60-COA	5,090	1	$ 53.00
281507	1	6" x 1" x 1"	C80-MED	5,090	1	$ 53.00
281526	1	6" x 1" x 1"	C100-FINE	5,090	1	$ 53.00
281514	1	7" x 1" x 1"	C60-COA	4,240	1	$ 65.45
281521	1	7" x 1" x 1"	C80-MED	4,240	1	$ 65.45
281498	1	8" x 1" x 1"	C60-COA	3,810	1	$ 83.25
281501	1	8" x 1" x 1"	C80-MED	3,810	1	$ 83.25
281527	1	8" x 1" x 1"	C100-FINE	3,810	1	$ 83.25
281510	1	10" x 1" x 1-1/2"	C60-COA	3,050	1	$ 131.70
281511	1	10" x 1" x 1-1/2"	C80-MED	3,050	1	$ 131.70
281524	1	10" x 1" x 1-1/2"	C100-FINE	3,050	1	$ 131.70
136344	1	12" x 2" x 1-1/2"	C60-COA	2,540	1	$ 299.85



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34060373	28	**34163116**	20	**34163820**	22	**34169157**	22
34060374	28	**34163117**	20	**34166305**	50	**34169159**	23
34060375	28	**34163134**	20	**34166307**	50	**34169160**	23
34060376	28	**34163135**	20	**34166308**	50	**34169182**	23
34060377	28	**34163136**	20	**34166324**	50	**34169183**	23
34162792	19	**34163138**	20	**34166330**	50	**34169184**	23
34162793	19	**34163139**	20	**34166332**	50	34169185	23
34162794	19	**34163140**	20	**34166334**	48		
34162795	19	**34163151**	20	**34166335**	48		
34162796	19	**34163152**	20	**34166336**	48		
34162798	19	**34163153**	20	**34166338**	48		
34162799	19	**34163154**	20	**34166339**	48		
34162800	19	**34163155**	20	**34166341**	48		
34162811	19	**34163156**	20	**34166342**	48		
34162812	19	**34163157**	20	**34166343**	48		
34162813	19	**34163158**	19	**34166344**	48		
34162814	19	**34163159**	19	**34166345**	48		
34162815	19	**34163160**	19	**34166347**	48		
34162816	19	**34163161**	19	**34166349**	48		
34162817	19	**34163162**	19	**34166351**	47		
34162818	19	**34163163**	19	**34166352**	47		
34162819	19	**34163165**	20	**34166354**	47		
34162820	19	**34163166**	20	**34166355**	47		
34162821	19	**34163167**	20	**34166356**	49		
34162822	19	**34163169**	20	**34166357**	49		
34162823	19	**34163170**	20	**34166358**	49		
34162824	19	**34163171**	20	**34166359**	49		
34162825	19	**34163245**	32	**34166360**	49		
34162826	19	**34163246**	32	**34166361**	49		
34162827	21	**34163247**	32	**34166362**	49		
34162828	21	**34163248**	32	**34166363**	49		
34162829	21	**34163249**	32	**34166384**	49		
34162830	21	**34163250**	32	**34166386**	49		
34162831	21	**34163251**	29	**34166386**	49		
34162832	21	**34163253**	31	**34166388**	49		
34162833	21	**34163254**	31	**34166401**	49		
34162835	21	**34163273**	30	**34166403**	49		
34162837	21	**34163274**	30	**34166404**	49		
34163027	21	**34163275**	30	**34169155**	22		

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