



MASTER GRINDING

INDUSTRY SOLUTIONS

JANUARY 2021

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Metal Grinding

When it comes to metal grinding, we offer a full line of abrasive products. From grinding wheels and flap discs, quick strip discs, wire wheels and much more, we have a solution to meet your needs.

CHOOSE WÜRTH FOR YOUR GRINDING NEEDS

APPLICATIONS



Stainless steel



Steel



Non-ferrous metals



Stone

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GRINDING WHEELS

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GRINDING TOOLS

01 | GRINDING WHEELS





General Working and Safety Precautions



Keep wheels dry; **20°C** room temperature is recommended



Only work with corresponding protective clothing like goggles, gloves, work shoes, etc



Do not use defective or worn flanges



Only carry out cutting and roughing work with a corresponding guard



Do not mount worn wheels on smaller machines

Grinding Wheels Application Guide

| Materials | Prefixes | Material Designations |
|---|---|---|
| Stainless Steel SSTL | 664.181... 665.01... 665.131... 670.181... | Stainless Steel Sheets Non-Alloyed Stainless Steel Alloyed and High-Alloyed Steel Rust and Acid-Proof Steel Chrome-Nickel Steel |
| Steel STL | 664.011... 664.160... 664.161... 665.01... 665.131... 670.161... | General Construction Steel High-Strength Construction Steel Structural Steel Tool Steel Hardened Steel |
| Aluminum/Non-Ferrous Metals NFM | 664.121... 665.01... 670.171... | Aluminum Aluminum Alloys Copper Brass Bronze |
| Stone STN | 679.203... | Natural Stone Artificial Stone Chalky Sandstone Concrete Reinforced Concrete |

Why choose Würth's Speed-X Grinding Wheel?

Excellent results on Steel and Stainless Steel

High rate of material removal

Outlasts traditional grinding discs 5 to 1

Ceramic Speed-X Grinding Wheel



STL

SSTL



Roughing wheel with special multi-layer structure for high material removal with simultaneous long service life.

APPLICATIONS

Equally especially suited for machining steel and stainless steel. Grinding edges, surfaces, hard weld seams, removing flash etc. (Also suitable for Aluminum/Non Ferrous applications)

CHARACTERISTICS

Free of iron, chlorine and sulphur ($\leq 0.1\%$). Suitable for KWU Class II (e.g. pipeline and reactor construction).

BENEFITS

Black fine-grained layer - Support layer (grinding-active)

- Behaves like a support plate for the coarse-grained layer
- Increased safety during grinding
- No fraying of the wheel
- Wheel grinds down evenly
- Excellent vibration damping
- Prevents "white-finger disease"
- Easy on machines

RED COARSE-GRAINED LAYER

- Grinding-active layer with specially encased grinding grain
- High grind-off with low application of force
- Very cool grinding (no material discolouration)
- Very clean grinding pattern
- No clogging (dulling) of wheel

SPECIAL FLEECE MIDDLE WOVEN FABRIC

- Increased work safety thanks to optimum grain adhesion and optimum wheel composite
- In conjunction with coarse and fine-grained combination, grinding pattern can be influenced, e.g. by changing grinding angle or grinding movements

+ Note: Outlasts Traditional Grinding Discs 5 to 1!

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|---|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | | | | | Depressed Center | 13,300 | 664.181156 | |
| 5" | 125 | 1/4" | 6.0 | 7/8" | 22.23 |  | 12,200 | 664.181256 | 25 |
| 7" | 180 | | | | | | 8,500 | 664.181806 | 10 |



Increased work safety thanks to optimum grain adhesion and optimum wheel composite

- 1 Fine-grained layer**
- 2 Coarse-grained layer**



ZEBRA Combi All-in-One Disc

SPEED

STL

SSTL



FEATURES

- Unique 3 layered reinforcement structure
- Highly aggressive
- Thermal and physical treatment for perfect disc structure
- Especially suited for machining steel and stainless steel, as well as some non-ferrous metals.
- Metal machining and processing, steel construction, window and door construction
- On-site maintenance and repair
- Weld seam preparation and removal, general roughing, cleaning and finishing

BENEFITS

- Cutting, grinding and polishing with one single product
- No more time loss due to machine or product change
- The fine grit provides an excellent and uniform finishing result
- Low vibration; comfortable working
- Free of iron, sulphur and chlorine
- Low cutting temperature due to special fillers

+ Cutting, grinding and polishing! All in one single product!

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | | | | | Depressed Center | 13,300 | 665.131152 | 25 |
| 5" | 125 | 3/32" | 2.2 | 7/8" | 22.23 | | 12,200 | 665.131252 | |
| 6" | 150 | 1/8" | 2.2 | 7/8" | 22.23 | | 12,200 | 670.1878 | |
| 6" | 150 | 3/32" | 2.2 | 7/8" | 22.23 | | 12,200 | 670.53278 | |

Long Life Grinding Wheel

LONG LIFE


IRON, CHLORINE & SULPHUR FREE

ENGINEERED TO OUTLAST other grinding wheels

APPLICATIONS

Rough edges, deburring, weld seam preparation, etc.

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 1/4" | 7.0 | 7/8" | 22.23 | Depressed Center | 13,300 | 670.181157 | 5 |
| 5" | 125 | | | | | | 12,200 | 670.181257 | |

Speed Grinding Wheel


SPEED


APPLICATIONS

Rough edges, deburring, weld seam preparation, etc.

FEATURES


- Synthetic bond, fibre-reinforced construction provides superior grinding properties, exceptional service life and drastically reduces disc failure
- Engineered to meet minimal measurement and imbalance tolerance thus eliminating excessive vibration and disc chatter
- Designed for use with electric and pneumatic angle grinders
- Maximum spherical speed 80 m/s
- Discs meet the strict safety requirements of the European standard (EN 12413) as well as the OSA (Organization for the Safety of Abrasives)

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-----|---|------------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 2 3/8" | 60 | 1/4" | 6.0 | 1/4" | 6.0 | Flat | 25,000 | 664.160606 | 10 |
| 4 1/2" | 115 | 5/32" | 4.0 | 7/8" | 22 | Depressed Center | 13,300 | 664.161154 | |
| | | 1/4" | 7.0 | | | | 664.161157 | 10 | |
| 5" | 125 | 5/32" | 4.0 | | | | 12,200 | 664.161254 | 10 |
| | | 7.0 | | | | | 664.161257 | | |
| 6" | 150 | 1/4" | 6.0 | | |  | 10,000 | 664.011253 | 10 |
| 7" | 180 | | 7.0 | | | | 8,500 | 664.161807 | |

Long Life Grinding Wheel



- APPLICATIONS**
 Rough edges, deburring, weld seam preparation, etc.
- EXCEPTIONAL SERVICE LIFE**
 Meets the safety requirements of the **OSA**
(ORGANIZATION FOR THE SAFETY OF ABRASIVES)

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty | | | |
|----------|-----|-----------|-----|------------|----|---|----------|------------|----------|--|--|--|
| inch | mm | inch | mm | inch | mm | | | | | | | |
| 4 1/2" | 115 | 5/32" | 4.0 | 7/8" | 22 |  | 13,300 | 670.161154 | 5 | | | |
| | | 1/4" | 7.0 | | | | 12,200 | 670.161157 | | | | |
| 5" | 125 | 5/16" | 8.0 | | | | 8,500 | 670.161257 | 10 | | | |
| 7" | 180 | | | | | | 12,200 | 670.161808 | | | | |
| 6" | 150 | 1/4" | 7.0 | | | | | | 670.1478 | | | |



Long Life Grinding Wheel

LOGLIFE


An all-round
HARDER DISC

PARTICULARLY LONG SERVICE LIFE
combined with good metal-removing properties

RESISTS LOADING of soft metals

APPLICATIONS

For the rough truing of cast-ons, casting skin and edges,
preparing weld seams, etc.; also good for grinding brass

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|-------------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 4 1/2" | 115 | 5/32" | 4.0 | 7/8" | 22.23 | Depressed Center | 13,300 | 670.171157 | 5 |
| 5" | 125 | 1/4" | 7.0 | | | | 12,200 | 670.171257 | |



Speed Grinding Wheel

SPEED



APPLICATIONS

A blend of additives combined with an open grain structure provides clog-free grinding in aluminum, soft bronze, brass and non-ferrous metals

RESISTS LOADING of soft metals

| Diameter | | Thickness | | Arbor hole | | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|----------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 5" | 125 | 1/4" | 6.4 | 7/8" | 22.23 | Depressed Center | 12,200 | 664.121351 | 10 |

ASK AN **EXPERT**

Q:

DO YOUR GRINDING WHEELS
BECOME GLAZED WHEN
WORKING WITH ALUMINUM AND
OTHER NON-FERROUS METALS?

Soft metals, like aluminum for example, melt easily during the grinding process.

This can cause grinding wheels to become glazed by the melted aluminum, which prevents the abrasive grains on the wheel from making contact with the surface of the material being processed.

Würth offers specially engineered grinding wheels that resist loading when working with soft metals. **Matching the right product to the right application is very important** when working with soft metals to ensure that the user gets the maximum life and performance out of their grinding wheel.



Rondeller Grinding Wheels



+ For use on all metals including non-ferrous!

APPLICATIONS

- Used for rough, medium and fine surface grinding, on all metals (ferrous and non-ferrous). Eg: mild and carbon steels, tool steels, stainless steels, aluminum, bronze, brass

FEATURES

- No clogging, good chip clearance
- Extended service life, excellent overall performance
- The patented construction and use of high-quality reinforcing guarantee high resistance to breaking
- Increased heat disbursement and operating noise level 35 % less than most common grinding discs

| Diameter | | Thickness | | Arbor hole | | Design | Grit | Art. No. | P. Qty |
|----------|-----|-----------|-----|------------|-------|------------------|------|------------|--------|
| inch | mm | inch | mm | inch | mm | | | | |
| 5" | 125 | 5/32" | 4.0 | 7/8" | 22.23 | Depressed Center | 60 | 665.012560 | 5 |
| 7" | 178 | | | | | | 36 | 665.018036 | |

Grinding Stones



FEATURES

- Ceramically bound
- For various bench grinders
- Type A, straight
- Tool grinding machines or other stationary grinding machines
- For general purpose workshop use grinding of steel, iron, forging grade steel, etc.

+ Note: Do not exceed 2,000 RPM. If tool is used above 2,000 RPM, personal injury or surface damage may occur.

| Diameter | Thickness | Arbor hole | Grit | Design | Max. RPM | Art. No. | P. Qty |
|----------|-----------|------------|------|--------|----------|------------|--------|
| 8" | 3/4" | 1" | 36 | Flat | 2,000 | 679.203036 | 1 |
| | | | 60 | | | 679.203060 | |

Adaptor Sleeves



FEATURES

- Grinding stone reducing bushing
- Made of plastic

| Outer Dia. | Inner Dia. (inch equiv.) | Inner Dia. (mm) | Art. No. | P. Qty |
|------------------|--------------------------|-----------------|-----------|--------|
| 1-1/4" (32mm) | 15/32" | 12 mm | 679.03212 | 2 |
| | 5/8" | 16 mm | 679.03216 | |

CUTTING & GRINDING

often go hand-in-hand

Don't forget that
Würth offers a full
line of cutting discs

ASK YOUR REP ABOUT OUR FULL LINE!



02 | FLAP DISCS

Flap Disc Application Guide

Recommended Grits

| Application | 24 | 36 | 40 | 60 | 80 | 120 |
|--------------------------|----|----|----|----|----|-----|
| Heavy Stock Removal | | | | | | |
| Weld Blending | | | | | | |
| Edge Chamfering/Beveling | | | | | | |
| Deburring/Deflashing | | | | | | |
| Rust Removal/Blending | | | | | | |
| Cleaning/Finishing | | | | | | |

Flap Disc Advantages

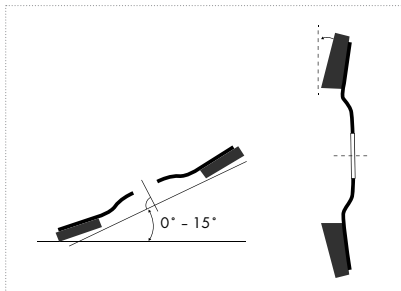
Grinds like a depressed center grinding wheel, but finishes like a resin fibre disc.

+ PLUS

- Less noise
- Less vibration
- Light weight
- Less operator fatigue

TYPE 27 VS. TYPE 29

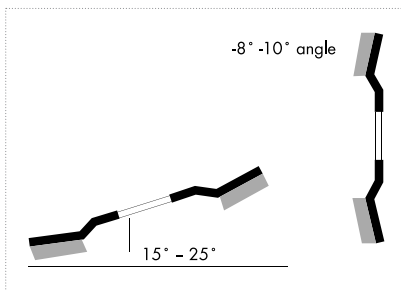
TYPE 27 (FLAT)



APPLICATION ANGLE

Best suited for finishing applications

TYPE 29 (CONICAL)



APPLICATION ANGLE

Best suited for aggressive material removal

NEW! CERAMIC PLUS FLAP DISCS

Innovative grain technology that results in sharper grain edges and higher stock removal on high alloyed steels and stainless steel.

FEATURES

- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

AVANTAGES

- Long service life
- High removal rate
- Low contact pressure required
- Cool grinding

UTILISATIONS

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels



| Diameter | Arbour Hole | Grit | Max. RPM | Design | Art. No. | P. Qty. |
|----------|-------------|------|----------|---------|------------|---------|
| 4-1/2" | 7/8" | 40 | 13,300 | Type 29 | 578.941240 | 5 |
| | | 60 | | | 578.941260 | |
| | | 80 | | | 578.941280 | |
| 5" | | 40 | 12,200 | | 578.950040 | |
| | | 60 | | | 578.950060 | |
| | | 80 | | | 578.950080 | |



Flap Discs – Ceramic

LONGLIFE

IN COMPARISON TO CONVENTIONAL SEGMENTED DISCS

- Lasts up to four times longer than conventional flap discs.
- Very high degree of material removal.
- Finer, more uniform surface quality.

HIGH-PERFORMANCE GRINDING CLOTH


(Ceramic grinding grain with grinding-active topcoat)

- Extremely long service life.
- Very cool grinding.
- No discolouration of material.
- Self-sharpening ceramic grain.



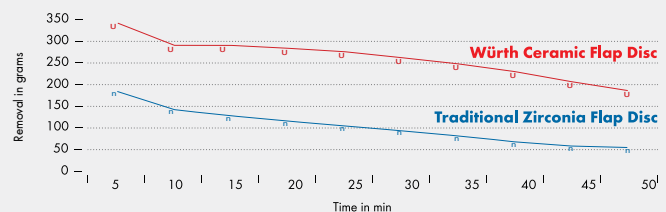
APPLICATIONS

- Ideal for the processing of stainless steel, high-alloy steels, nickel-based alloys and titanium alloys.
- Used to grind edges and surfaces, dressing and smoothing, deburring and for weld seam processing

| Diameter | Arbour hole | Grit | Max. RPM | Design | Backing | Art. No. | P. Qty. |
|----------|-------------|------|----------|--|-------------------|------------|---------|
| 4 1/2" | 7/8" | 40 | 13,300 | Type 29  | Fibreglass Backed | 578.430314 | 10 |
| | | 60 | | | | 578.430316 | |
| | | 80 | | | | 578.430318 | |
| 5" | | 40 | 12,200 | | | 578.430324 | |
| | | 60 | | | | 578.430326 | |
| | | 80 | | | | 578.430328 | |



Grinding Comparison with Grit 40 in Stainless Steel 1.4571



Jumbo Flap Discs – Zirconia

DESIGNED FOR MAXIMUM PERFORMANCE in deburring, grinding and polishing metals and welding

Mineral type bond and fibreglass backing for a better performance and **A STRONGER RESISTANCE**

POWERFUL, VERSATILE, FLEXIBLE, SAFE AND ECONOMICAL

+ For use on all types of metals!

+ Note: Lasts up to **3 times longer** than a conventional flap disc due to more flap segments.



Extra flaps mean a **longer life!**

| Diameter | Arbor hole | Grit | Max. RPM | Design | Art. No. | P. Qty. |
|----------|------------|------|----------|---------|--------------|---------|
| 4 1/2" | | 24 | 13,300 | Type 27 | 578.412.024 | 5 |
| | | 40 | | | 578.412.040 | |
| | | 60 | | | 578.412.060 | |
| | | 40 | | Type 29 | 578.412.4029 | |
| | | 60 | | | 578.412.6029 | |
| | | 80 | | | 578.412.8029 | |
| 5" | 7/8" | 24 | 12,300 | Type 27 | 578.5..024 | |
| | | 40 | | | 578.5..040 | |
| | | 60 | | | 578.5..060 | |
| | | 80 | | Type 29 | 578.5..080 | |
| | | 36 | | | 578.5..2429 | |
| | | 60 | | | 578.5..3629 | |
| 6" | | 36 | 10200 | Type 27 | 578.5..6029 | |
| | | 80 | | | 578.5..8029 | |
| | | 36 | | | 578.6..36 | |
| | | 60 | | | 578.6..60 | |
| | | 80 | | | 578.6..80 | |

SEE THE DIFFERENCE, EXPERIENCE THE DIFFERENCE

Jumbo vs. Regular Flap Disc



JUMBO FLAP DISC

CERAMIC FLAP DISC

EZ Spin Flap Discs – Zirconia

FEATURES

- One step 'spin on' 5/8-11 threaded hub
- Ergonomic grip area for fast and easy finger alignment and mounting
- Positive drive – no slip
- Over-torque protection
- Self-tightening thread
- Durable high-strength plastic backing
- Cool cutting Zirconia grain

APPLICATIONS

- Steel, Stainless Steel, Non-ferrous, Vehicle body construction, Wood etc.
- Grinding and finishing welds
- Removal of welded seams
- Edge grinding, rust removal, heavy cleaning and surface finishing

ADVANTAGES

- Super-fast mounting and demounting
- Eliminate costly changeover time
- Plastic backing absorbs vibration and increases removal rate performance
- 5/8 – 11 hub fits all standard grinders
- High stock removal
- Long life
- Even grinding pattern



Connect
**quickly
and easily**
without the use of
a locking nut

+ Reduce downtime and increase productivity with the EZ Spin Quick Change System



| Diameter | Arbor | Grit | Max. RPM | Design | Art. No. | P. Qty. |
|----------|-----------|------|----------|---------|------------|---------|
| 4 - 1/2" | 5/8 - 11" | 36 | 13,300 | TYPE 29 | 579.432513 | 5 |
| | | 40 | | | 579.432514 | |
| | | 60 | | | 579.432516 | |
| | | 80 | | | 579.432518 | |
| | | 120 | | | 579.432511 | |
| 5" | 5/8 - 11" | 36 | 12,200 | TYPE 29 | 579.432523 | 5 |
| | | 40 | | | 579.432524 | |
| | | 60 | | | 579.432526 | |
| | | 80 | | | 579.432528 | |
| | | 120 | | | 579.432521 | |

Flap Discs – Zirconia



BENEFITS

- Very high removal rate
- Very long life
- Cool cutting performance
- Even grinding pattern through to complete wear-out

APPLICATIONS

- Performance grinding for high stock removal
- Removal of welded seams and edge grinding

- Works on burrs and rough casts
- Ideal for surface grinding of small areas
- Rust removal and cleaning

+ Note: The Type 29 Conical discs are only available with fibreglass backing, and the Type 27 Flat discs are only available with plastic backing.

+ Can be used on virtually any material!

| Diameter | Arbor hole | Grit | Max. RPM | Design | Backing | Art. No. | P. Qty. |
|----------|------------|------|----------|---------|-------------------|------------|---------|
| 4 1/2" | | 40 | 13,300 | Type 29 | Fibreglass Backed | 579.430314 | |
| | | 60 | | | | 579.430316 | |
| | | 80 | | | | 579.430318 | |
| 5" | | 40 | 12,300 | Type 29 | Fibreglass Backed | 579.430324 | 10 |
| | | 60 | | | | 579.430326 | |
| | | 80 | | | | 579.430328 | |
| 4 1/2" | 7/8" | 40 | 13,300 | Type 27 | Plastic Backed | 579.431514 | |
| | | 60 | | | | 579.431516 | |
| | | 80 | | | | 579.431518 | |
| 5" | | 40 | 12,300 | Type 29 | Fibreglass Backed | 579.431524 | |
| | | 60 | | | | 579.431526 | |
| | | 80 | | | | 579.431528 | |
| 7" | | 40 | 8,500 | Type 29 | Fibreglass Backed | 578.02940 | 5 |
| | | 60 | | | | 578.02960 | |
| | | 80 | | | | 578.02980 | |

DISCOVER WÜRTH'S EZ SPIN FLAP DISC

579.432...

Reduce downtime &
increase productivity with
the Quick Change System!



See-Through Flap Disc – Zirconia



FUNCTION



Grinding with Zebra slotted see-through disc: good view of the material being processed.



Grinding without Zebra slotted see-through disc.

| Dia | Arbor Hole | Grit | Max. RPM | Design | Art. No. | P. Qty |
|--------|------------|------|----------|---------|--------------------|--------|
| 4 1/2" | 7/8" | 40 | 13,300 | Type 29 | 578.811.540 | 2 |
| | | 60 | 13,300 | | 578.811.560 | |
| | | 80 | 13,300 | | 578.811.580 | |
| 5" | 7/8" | 40 | 12,200 | | 578.812.540 | |
| | | 60 | 12,200 | | 578.812.560 | |
| | | 80 | 12,200 | | 578.812.580 | |

Product Tip: For particular use on Steel, Stainless Steel and Aluminum. Welding spray, **Art. No. 893.1021**, extends the tool life of the slotted see-through disc for the processing of non-ferrous metals.

- + **Good view "through the disc" and thus on the material being processed. Fantastically cool and even grinding results. Ideal for the processing of thin sheet metal for the construction of vehicle bodies, for full materials and weld seams.**

BENEFITS

- Free view of the work piece being processed:
 - Prevents undesired excessive grinding
 - Reduction of processing faults
- Better surface quality through more targeted work
- Cool grinding due to fan effect:
 - Reduction of temperature on the surface prevents undesired blue coloring of the work piece
- Good, steady guidance

APPLICATIONS

GENERAL STEEL CONSTRUCTION

- Weld seam preparation and post-processing of weld seam
- Derusting
- Removal of scale (to a small extent)
- Grinding of wrought ironwork (grills, railings, banisters)
- Removal of excess zinc on weld seams before plastic coating

STAINLESS STEEL PROCESSING

- Pipeline construction, tank and container construction
- Apparatus construction (chemical industry)
- Plant construction, such as breweries, food industry
- Boat construction

ALUMINUM PROCESSING (ALL NON-FERROUS METALS)

- Special vehicles, such as silo vehicles, ambulances, fire department vehicles, etc
- Ship construction
- Airplane construction

AGRICULTURAL MACHINES

- Sharpening of blades (lawn mowers, reciprocating finger bar mower)

VEHICLE BODY CONSTRUCTION

- Accident repairs: paints and filler compounds, MIG solder seams
- Special vehicle construction (truck attachments, servicing, and parts subject to wear for bulk material transporters)

WOOD AND FRP PROCESSING

- Exact surfaces or edge corrections

- + **Note:** When only wood or plastics are ground, the disc must be cleaned by grinding on a sharp-edged iron tool

Mini Flap Discs – Type 'R' Zirconia

APPLICATIONS

- Alternative to quick-action system fibre discs, small roughing discs, point grinders, fan-shaped grinders, grinding sleeves, grinding caps, etc.
- Weld seam finishing, surface grinding, removal of paint, tool sharpening, plastering and smoothing, deburring, edge machining and finishing, particularly in tight spaces
- Used for stainless steel, chromium, and nickel alloys, alloyed and unalloyed steels, construction steel, tool steel, nonferrous metals, castings, hard plastics and wood

+ Mini Flap grinding disc with quick-action chuck for use with compressed air grinders (angled), flexible shafts.



Compatible with 3M Roloc System

Use with: Type R Mandrel Art. No. **585.41** and **585.43**

| Diameter | Grit | Max. RPM | Art. No. | P. Qty. |
|----------|------|----------|------------|---------|
| 2" | 40 | 30,000 | 578.605040 | 2 |
| | 60 | | 578.605060 | |
| | 80 | | 578.605080 | |
| 3" | 40 | 20,000 | 578.607640 | |
| | 60 | | 578.607660 | |
| | 80 | | 578.607680 | |

SERVICE LIFE COMPARISON



Conventional Mini Resin Fibre Disc

20:1



Würth Mini Flap Disc

Mini Flexi Discs – Type 'R' Zirconia

+ Suitable for concave or convex surfaces as well as finishing, transition and profile grinding. Robust and flexible cotton fabric with high tearing strength.

APPLICATIONS

- Used on stainless steel, chromium and nickel alloys, alloyed and unalloyed steels, construction steel, tool steel, nonferrous metals, castings, hard plastics and wood



Compatible with 3M Roloc System

Use with: Type R Mandrel Art. No. **585.41** and **585.43**

| Diameter | Grit | Max. RPM | Art. No. | P. Qty. |
|----------|------|----------|------------|---------|
| 2" | 40 | 30,000 | 578.705040 | 2 |
| | 60 | | 578.705060 | |
| | 80 | | 578.705080 | |

03

RESIN FIBRE DISCS



Soft Metal Resin

Aluminum Oxide

Ceramic Plus

Zirconia

Ceramic

Ceramic Plus Resin Fibre Discs

FEATURES

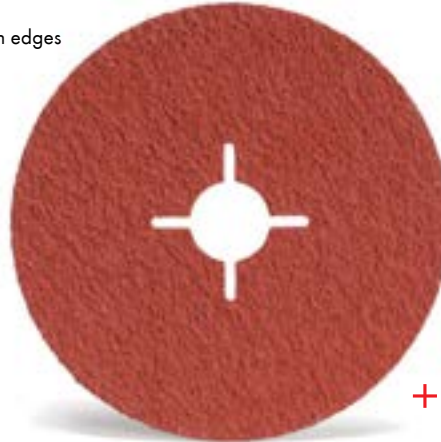
- Aggressive self-sharpening grain
- Microcrystals that produce sharper grain edges

ADVANTAGES

- Long service life
- High removal rate
- Low contact pressure required
- Cool sanding

APPLICATIONS

- Stainless steel
- Steel
- Aluminum
- Rust resistant, acid resistant and heat resistant high alloyed steels



| Diameter x Arbor Hole | Grit | Max RPM | Art. No. | P. Qty. |
|-----------------------|------|---------|------------|---------|
| 4 1/2" x 7/8" | 36 | 13,330 | 580.911536 | 25 |
| | 60 | | 580.911560 | |
| | 80 | | 580.911580 | |
| | 120 | | 580.911512 | |
| 5" x 7/8" | 36 | 12,250 | 580.912536 | 25 |
| | 60 | | 580.912560 | |
| | 80 | | 580.912580 | |
| | 120 | | 580.912512 | |
| 6" x 7/8" | 36 | 10200 | 580.916636 | 25 |
| | 60 | | 580.916660 | |
| | 80 | | 580.916680 | |
| | 120 | | 580.916612 | |
| 7" x 7/8" | 36 | 8,500 | 580.917812 | 25 |
| | 60 | | 580.917860 | |
| | 80 | | 580.917880 | |
| | 120 | | 580.917812 | |

+ Innovative grain technology that results in sharper grain edges and higher stock removal on high alloyed steels and stainless steel.

EXPERT TIP

Würth's Ceramic Plus resin fibre discs use micro-crystal abrasive grain technology. Unlike aluminum oxide, zirconia or even standard ceramic grains for that matter, Ceramic Plus grains are engineered to fracture along tiny fault lines. This results in sharp, new edges being exposed. For the user, this means that **the resin fibre disc will maintain its aggressive rate of material removal throughout the life of the disc.**

CERAMIC PLUS



CERAMIC

ZIRCONIA

ALUMINUM OXIDE

Choosing the right grit

16 – 36
Stock Removal

30 – 50
Edge Chamfering

36 – 60
Weld Blending

40 – 80
Deburring/
Deflashing

50 – 100
Rust Removal

60 – 120
Cleaning &
Finishing

Premium Ceramic Coated Resin Ribre Discs



+ Works on the hardest metals!

- Developed especially for use on stainless steel and other alloys
- Provides higher cut rates and cooler grinding temperatures
- Features a safe grinding aid

Features:

- Heat treated, blue fired, ceramically coated, aluminum oxide and ceramic grain
- Custom blended grinding aid
- Synthetic wax

Applications:

- Stainless Steel 300 Series
- Carbon Steel
- Exotic Alloys
- Titanium

Benefits:

- Fast initial cut
- Works on the hardest of metals
- Longer life, anti-glazing, anti-loading, cool grinding product

| Diameter x Arbor Hole | Grit | Art. No. | P. Qty |
|-----------------------|------|-------------|--------|
| 4 1/2" x 7/8" | 24 | 579.412.024 | 25 |
| | 36 | 579.412.036 | |
| | 80 | 579.412.080 | |
| 5" x 7/8" | 24 | 579.5..024 | |
| | 36 | 579.5..036 | |
| | 50 | 579.5..050 | |
| | 60 | 579.5..060 | |
| | 80 | 579.5..080 | |
| 7" x 7/8" | 24 | 579.7..024 | |
| | 36 | 579.7..036 | |

Premium Zirconia Resin Fibre Discs



+ High quality, multi layer, heavy duty vulcanized fibre discs

FEATURES

- 0.8 mm thick
- Covered with a resin bond coat specially formulated to resist loading, glazing and grain stripping
- The bond coat is then covered with specially processed mineral abrasive grains formulated for toughness, sharpness and bond
- Outstanding cutting rates and maximum useful life
- Powerful, versatile, flexible, safe and economical
- Most cost effective when used in high production applications where cutting rates are monitored

APPLICATIONS

- Stock removal (welds, protrusions), finishing and blending
- Varying work piece substrates
- Flat surfaces and contour surfaces
- Stainless - Cobalt Titanium
- General purpose grinding ferrous and non-ferrous metals, fibreglass-wood etc.

| Diameter x Arbor Hole | Grit | Art. No. | P. Qty |
|-----------------------|------|------------|--------|
| 4 1/2" x 7/8" | 24 | 580.011524 | 25 |
| | 36 | 580.011536 | |
| | 60 | 580.011560 | |
| | 80 | 580.011580 | |
| 5" x 7/8" | 24 | 580.012524 | |
| | 36 | 580.012536 | |
| | 60 | 580.012560 | |
| | 80 | 580.012580 | |
| 7" x 7/8" | 24 | 580.018024 | |
| | 36 | 580.018036 | |
| | 50 | 580.018050 | |
| | 60 | 580.018060 | |

Premium Aluminum Oxide Resin Fibre Discs



FEATURES

- Covered with a resin bond coat specially formulated to resist loading, glazing and grain stripping
- The bond coat is then covered with specially processed mineral abrasive grains formulated for toughness, sharpness and bond
- A blend of advanced abrasive alloys and bonding agents delivers superior cutting rates and longer useful life
- No breaking or tearing at the edges during grinding
- Provides optimal value when used in high stock removal applications and where a cool cutting action is required

APPLICATIONS

- Stock removal (welds, protrusions)
- Finishing and blending
- Varying work piece substrates
- Flat surfaces
- Contour surfaces

+ High quality, multi layer, heavy duty vulcanized fibre discs

| Diameter x Arbor Hole | Grit | Art. No. | P. Qty |
|-----------------------|------|-------------|--------|
| 4 1/2" x 7/8" | 24 | 580.11524 | 25 |
| | 36 | 580.11536 | |
| | 40 | 580.11540 | |
| | 60 | 580.11560 | |
| | 80 | 580.11580 | |
| | 120 | 580.115120* | |
| 5" x 7/8" | 24 | 580.12524 | 25 |
| | 36 | 580.12536 | |
| | 50 | 580.12550 | |
| | 60 | 580.12560 | |
| | 80 | 580.12580 | |
| | 120 | 580.125120 | |
| 7" x 7/8" | 24 | 580.18024 | 25 |
| | 36 | 580.18036 | |

*Available OnDemand

Soft Metal Resin Fibre Discs



FEATURES

- Long life discs as a result of delayed loading
- Cuts soft metals fast
- Reduces heat at the contact point, disc remains free-cutting
- Removes larger media chips
- Lubricates as they grind
- **Resist loading**
- Greater longevity
- Outlast conventional aluminum oxide discs
- RPM: 13,000 (4.5") and 12,000 (5")
- **Wax coating that prevents the disc from loading as it melts and cuts**

APPLICATIONS

Soft Metals with lower melting temperatures including:

- Aluminum, Bronze, Brass, Copper and Lead

ADVANTAGES

- A reduction in the number of discs used
- Longer working life of disc
- Less down time
- Faster cut rates and better surface finish

| Diameter x Arbor Hole | Grit | Art. No. | P. Qty |
|-----------------------|------|-------------|--------|
| 4 1/2" x 7/8" | 36 | 580.412.036 | 25 |
| | 80 | 580.412.080 | |
| | 36 | 580.5..036 | |
| 5" x 7/8" | 50 | 580.5..050* | 25 |
| | 60 | 580.5..060* | |
| | 80 | 580.5..080 | |
| | | | |

*Available OnDemand



Backing Pads – Air Cooled for Resin Fibre Discs



- Air Cooled
- Easy to assemble
- Max. RPM: 13,000
- Cools the disc while grinding

| Size | Art. No. | P. Qty |
|--------|-----------------|--------|
| 4 1/2" | 586.7004 | 1 |
| 5" | 586.7005 | |
| 7" | 586.7007 | |

Centre Nut for Resin Fibre Discs

Art. No. 715.58 Qty: 1



5/8" - 11 centre locking nut for use with
Air Cooled Backing Pads

Trim-Cut Grinding Discs – Aluminum Oxide

FEATURES

- Patented one piece molded plastic grinding discs offer all the advantages of paper abrasives and cut-down grinding discs without any of the problems
- Insulated against heat build up allowing cooler high speed grinding
- This trim-cut disc can be used and trimmed over and over right down to the arbour making it last up to 10 times longer than a regular RFD
- Cost effective and time effective
- Reverse thread

APPLICATIONS

- Ideal for rust and paint as well as general auto body work. A great performance disc on plastic, fibreglass and composites



- Surface conditions without stock removal. Ideal for removing rust and paint, gaskets and adhesives
- Excellent smoothing hardened alloy welds, grinding stainless steel, titanium, and non-ferrous metal. Amazing stock removal rate

GRINDING AND REMOVAL OF

- Welds, body filler, fibreglass, sheet metal burrs, paint, wood, plastic, rust



| Size / Grit | Art. No. | P.Qty |
|---------------------------|-----------------|-------|
| 3" Disc- Coarse (36 Grit) | 585.936 | 10 |
| 3" Disc- Medium (60 Grit) | 585.960 | 1 |
| 1/4" Mandrel | 715.5859 | 1 |

*Each box contains one 1/4" mandrel

Note: Rated up to 28,000 RPM

Patented Reverse Thread and Trimmable Technology



GRIND



TRIM



REVERSE THREAD
(For hard to reach places)



04 | **MINI RESIN FIBRE DISCS**



Premium Ceramic – Mini Resin Fibre Discs



Compatible with
3M Roloc System



FEATURES

- 100% ceramic with top coat (grinding aid)
- Durable construction – Very high edge durability compared to cloth discs
- Superior life and fast cut
- Excellent for rapid stock removal on stainless steel and tough alloys
- Perfect for deburring, weld removal, corrosion and oxidization removal

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|----------|--------|
| 2" | 24 | 585.7210 | 50 |
| | 36 | 585.7215 | |
| | 40 | 585.7220 | |
| | 50 | 585.7225 | |
| | 60 | 585.7230 | |
| | 80 | 585.7235 | |
| | 100 | 585.7240 | |
| 3" | 120 | 585.7245 | 25 |
| | 24 | 585.8210 | |
| | 36 | 585.8215 | |
| | 40 | 585.8220 | |
| | 50 | 585.8225 | |
| | 60 | 585.8230 | |
| | 80 | 585.8235 | |
| | 100 | 585.8240 | |
| | 120 | 585.8245 | |

APPLICATIONS

GOOD Cast Iron

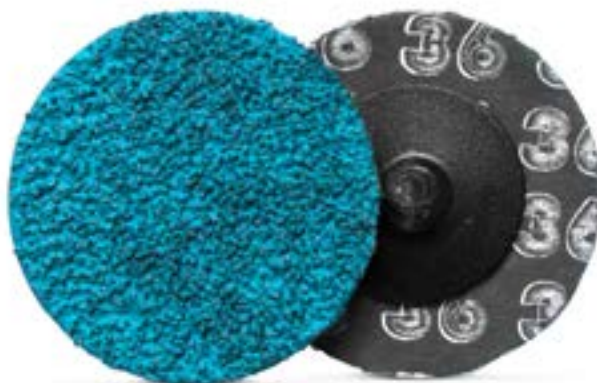
BETTER Mild Steel

BEST Stainless Steel, Titanium, Inconel

Zee Supreme – Mini Resin Fibre Discs



Compatible with
3M Roloc System



FEATURES

- 100% zirconia with top coat (grinding aid)
- Superior life and fast cut
- Lubricated for cool grinding
- Excellent for rapid stock removal on carbon steel
- Great for removing sharp edges and burrs

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|----------|--------|
| 2" | 24 | 585.2210 | 50 |
| | 36 | 585.2215 | |
| | 50 | 585.2225 | |
| | 60 | 585.2230 | |
| | 80 | 585.2235 | |
| | 100 | 585.2240 | |
| | 120 | 585.2245 | |
| 3" | 24 | 585.2310 | 25 |
| | 36 | 585.2315 | |
| | 50 | 585.2325 | |
| | 60 | 585.2330 | |
| | 80 | 585.2335 | |
| | 100 | 585.2340 | |
| | 120 | 585.2345 | |

APPLICATIONS

GOOD Bronze, Brass, Aluminum

BETTER Mild Steel, Cast Iron

BEST Stainless Steel, Titanium, Inconel

Green Power Zirconia – Mini Cloth Discs



FEATURES

- 100% zirconia with top coat (grinding aid)
- Cloth backing allows flexibility when used on a radius or contoured surface
- Superior life and fast cut
- Excellent for rapid stock removal on carbon steel
- Great performance on light gauged sheet metal
- Flexibility reduces gouging of metal resulting in a finer finish

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|-------------------|--------|
| 2" | 36 | 585.598422 | 25 |
| | 50 | 585.598424 | |
| | 60 | 585.598425 | |
| | 80 | 585.598426 | |
| | 120 | 585.598428 | |
| 3" | 36 | 585.598522 | 25 |
| | 50 | 585.598524 | |
| | 60 | 585.598525 | |
| | 80 | 585.598526 | |
| | 120 | 585.598528 | |

APPLICATIONS

GOOD Bronze, Brass, Aluminum

BETTER Mild Steel, Cast Iron

BEST Titanium, High Nickel Alloys



Compatible with
3M Roloc System

Note: Use with Type 'R'
Mandrel Art. No. **585.41**
and Art. No. **585.43**

Premium Aluminum Oxide – Mini Resin Fibre Discs



+ Premium quality state-of-the-art abrasive product. Aluminum oxide grain is the best material for weld removal, blending, deburring and removal of imperfections.

BENEFITS

- Distinctive hub is made from the highest quality virgin plastic making it shear resistant
- The fibre backing creates stiff, strong support for a more aggressive and faster cut
- Fits all existing Type 'R' style backing pads

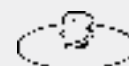
| Diameter | Grit | Art. No. | P. Qty |
|----------|------|------------------|--------|
| 2" | 24 | 585.6224 | 50 |
| | 36 | 585.6236 | |
| | 50 | 585.6250 | |
| | 120 | 585.62120 | |
| 3" | 24 | 585.6324 | 25 |
| | 36 | 585.6336 | |
| | 50 | 585.6350 | |
| | 120 | 585.6399 | |

APPLICATIONS

GOOD Wood, Ferrous Metals

BETTER Aluminum, Copper, Brass

BEST Carbon Steel, Cast Iron



Compatible with
3M Roloc System

Note: Use with Type 'R'
Mandrel Art. No. **585.41**
and Art. No. **585.43**

Alumax – Mini Resin Fibre Discs



For use on
soft metals

FEATURES

- 100% ceramic with top coat (grinding aid)
- Cool cut with anti-loading agent for soft metals
- Superior life
- A premium product for Aluminum, Brass, Copper etc.
- Rapid stock removal
- Drastically reduced aluminum galling due to anti-loading

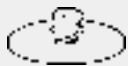
APPLICATIONS

GOOD Fibreglass, Composites

BETTER Copper, Brass

BEST Aluminum

| Diameter | Grit | Art. No. | P. Qty |
|----------|------|----------|--------|
| 2" | 24 | 585.3210 | 50 |
| | 36 | 585.3215 | |
| | 50 | 585.3225 | |
| | 60 | 585.3230 | |
| | 80 | 585.3235 | |
| | 100 | 585.3240 | |
| 3" | 120 | 585.3245 | 25 |
| | 24 | 585.3310 | |
| | 36 | 585.3315 | |
| | 50 | 585.3325 | |
| | 60 | 585.3330 | |
| | 80 | 585.3335 | |
| | 100 | 585.3340 | |
| | 120 | 585.3345 | |



Compatible with 3M Roloc System

Note: Use with Type 'R' Mandrel Art. No. **585.41** and Art. No. **585.43**

Type 'R' Mandrel

| Diameter | Art. No. | P. Qty. |
|----------|----------|---------|
| 1-1/2" | 585.40 | 1 |
| 2" | 585.41 | |
| 3" | 585.43 | |
| 4" | 585.44 | |



+ For use with
all Würth Type
'R' mini discs



05

SURFACE CONDITIONING DISCS



Surface Conditioning Discs



| Diameter | | Type | Colour | Max. RPM | Art. No. | P. Qty |
|----------|-----|--------|--------|----------|-----------------|--------|
| Inches | mm | | | | | |
| 5" | 125 | Coarse | Brown | 20,000 | 585.4510 | 10 |
| | | Medium | Maroon | | 585.4520 | |
| | | Fine | Blue | | 585.4530 | |

BENEFITS

- More flexible than a fibre sanding disc; less likely to gouge the sheet metal
- After paint removal, finish left is much smoother, therefore quicker to prep for primer
- Open construction of disc material allows dust to work through the disc and away from cutting surface
- Disc is much quieter during use than a fibre disc
- Will remove sharp edges and spot welds
- Much easier to control

Applications: Ideally suited for machining stainless steel, steel, brass, copper, paint and rust removal.

+ **Note:** Use with backing pad **Art. No. 586.7005**

Velcro Surface Conditioning Discs

PRODUCT TIP

Ideally suited for machining aluminum, steel, brass, copper, wood, plastics and paints



FEATURES:

Soft reinforced nylon sanding fleece with needle-through fabric carrier

BENEFITS

- High tear resistance, even sanding pattern, water resistant
- No change in shape during sanding
- No clogging
- No sanding through when machining body parts
- Cooler sanding (low working temperature)

+ **For use on electric and pneumatic angle grinders. Ideal for sanding flat surfaces.**

Applications: Burnishing, matting, polishing, removing paint runs, removing surface defects (light scratches) and smoothing surfaces

+ **Note:** Use with backing pad Art. No. **586.12012, 586.12028 or 586.12035**

| Diameter | | Type | Colour | Max. RPM | Art. No. | P. Qty |
|----------|-----|--------|--------|----------|-------------------|--------|
| Inches | mm | | | | | |
| 4 1/2" | 115 | Coarse | Brown | 4,150 | 585.46080 | 10 |
| | | Medium | Maroon | | 585.460100 | |
| | | Fine | Blue | | 585.460180 | |
| 5" | 125 | Coarse | Brown | 3,800 | 585.47080 | |
| | | Medium | Maroon | | 585.470100 | |

Surface Conditioning Disc Applications

COARSE

GOOD Heavy stock removal

BETTER Scale Removal

BEST Heavy Deburring

MEDIUM

GOOD Light deburring

BETTER Cleaning

BEST Blending, Finishing

FINE

GOOD Blending

BETTER Finishing

BEST Cleaning

Mini Surfacing Conditioning Discs – Type 'R'

FEATURES

- Removes old paint and coatings supplying a smooth, uniform surface
- Removes coarse grind lines, milling marks and micro burrs
- Removes light rust
- Minimizes undercutting and gouging, will not disturb critical tolerances
- Removes old gasket adhesives
- Cleans or deburrs hard to reach areas.
- Fits any standard 1/4" or 3/8" drill or air tool
- Silicone free



| Diameter | Type | Colour | Max. RPM | Art. No. | P. Qty |
|----------|--------------|--------|----------|------------------|--------|
| 2" | Heavy Duty | Brown | 23,000 | 585.42099 | 50 |
| | Extra Coarse | Brown | | 585.4209 | |
| | Coarse | Brown | | 585.4210 | |
| | Medium | Maroon | 20,000 | 585.4211 | |
| | Fine | Blue | 23,000 | 585.4230 | |
| | Extra Fine | Grey | | 585.4240 | |
| 3" | Extra Coarse | Brown | 15,000 | 585.4315 | 25 |
| | Coarse | Brown | | 585.4310 | |
| | Medium | Maroon | | 585.4320 | |
| | Fine | Blue | 13,000 | 585.4330 | |

Applications: Use **medium and coarse** surface conditioning discs for steel surfaces. Use **fine and extra fine** surface conditioning discs for aluminum surfaces.

HEAVY DUTY

GOOD Heavy stock removal

BETTER Scale Removal

BEST Heavy Deburring

EXTRA COURSE

GOOD Scale Removal

BETTER Med Stock removal

BEST Rust & Paint removal

COURSE

GOOD Light Stock Removal

BETTER Scale Removal

BEST Light deburring

MEDIUM

GOOD Light deburring

BETTER Cleaning

BEST Blending, Finishing

FINE

GOOD Blending

BETTER Finishing

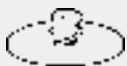
BEST Cleaning

EXTRA FINE

GOOD Light Blending

BETTER Finishing

BEST Light Cleaning



Compatible with
3M Roloc System

Note: Use with Type 'R' Mandrel
Art. No. **585.41** and Art. No. **585.43**

Recommendations: Always wear protective eye
wear when operating surface discs (**Prefix 899**)

Backing Pads



VELCRO BACKING PADS

Backing pad for use with Velcro discs.
Incorporates unique hook and loop fastening system for simple application and removal.

+ Safety Tip: Always check the RPM of the disc being used

| Diameter | Shank size | Max. RPM | Art. No. | P. Qty |
|----------|------------------|----------|------------------|--------|
| 4 1/2" | 5/8" - 11 Female | 10,000 | 586.12012 | 1 |
| 5" | 5/8" - 11 Female | 10,000 | 586.12035 | |

Metal Polishing Pads – Type 'R'



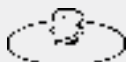
FEATURES

- Excellent for restoring metal finishes on items too large to polish on a bench mounted polisher
- Allows the operator to polish with the same die grinder and holder pad they would normally use for surface conditioning and sanding discs
- Great final finishing on aluminum, brass and chrome

APPLICATIONS

- Used for polishing aluminum wheels, stainless steel tool boxes and running boards, chrome bumpers, brass fittings, chrome motorcycle exhaust, etc
- A metal polish or buffing compound must be applied to the disc prior to polishing any type of metal. The disc will not work without some sort of polishing agent
- Metal polish should be applied sparingly. If too much polish is used, the excess will fly off as soon as the disc is spun by the air tool, causing a mess
- Slow speed and light pressure should be used. Allow the disc and polish to do the work
- The disc can be cleaned of old polish residue by holding the tool at an angle and dragging a sharp tool, such as a screwdriver, across the face of the disc while it is spinning

| Diameter | Max RPM | Art. No. | P. Qty |
|----------|---------|-----------------|--------|
| 2" | 20,000 | 585.3160 | 4 |
| 3" | | 585.3161 | 2 |



Compatible with
3M Roloc System

Note: Use with Type 'R' Mandrel
Art. No. **585.41** and Art. No. **585.43**

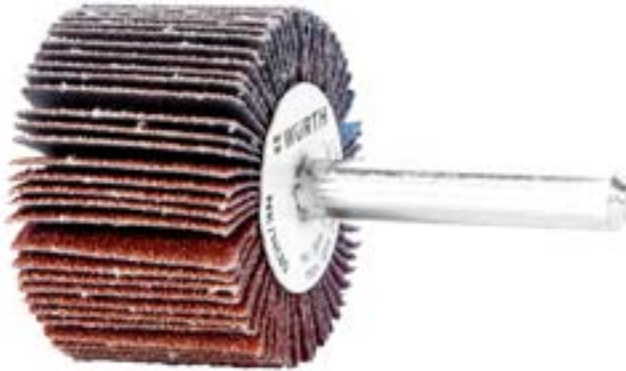
Product Tip: Begin polishing with Würth Buff and Blend and finish with this metal polishing pad.

06

**FLAP
WHEELS**



Flap Wheels



BENEFITS

- Excellent for applications requiring high stock removal and aggressive cleaning, blending and finishing
- Leaves straight line finish
- Provides maximum stability and smaller contact areas of work surface
- Mandrel runs through the wheel reducing chatter and operator fatigue
- Aluminum oxide abrasive with phenolic resin

APPLICATIONS

- Deburr edges
- Clean, blend and finish inside and outside diameters of ferrous and non-ferrous metals

STANDARD

| Grit | 1" x 1/2" | 1" x 1" | 1 1/2" x 1/2" | P. Qty |
|----------|------------|------------|---------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.033076 | 672.033096 | 672.034076 | 10 |
| 80 | 672.033078 | 672.033098 | 672.034078 | |
| 120 | 672.033071 | 672.033091 | 672.034071 | |
| Max RPM | 30,500 | 30,500 | 20,000 | |
| Rec. RPM | 15,700 | 15,700 | 10,000 | |

| Grit | 1 1/2" x 1" | 2" x 1/2" | 2" x 3/4" | P. Qty |
|----------|-------------|------------|------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.034096 | 672.035076 | 672.035086 | 10 |
| 80 | 672.034098 | 672.035078 | 672.035088 | |
| 120 | 672.034091 | 672.035071 | 672.035081 | |
| Max RPM | 20,000 | 15,000 | 15,000 | |
| Rec. RPM | 10,000 | 7,500 | 7,500 | |

| Grit | 2" x 1" | 2 1/2" x 1" | 3" x 1" | P. Qty |
|----------|------------|-------------|------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.035096 | 672.036096 | 672.037096 | 5 |
| 80 | 672.035098 | 672.036098 | 672.037098 | |
| 120 | 672.035091 | 672.036091 | 672.037091 | |
| Max RPM | 15,000 | 12,000 | 9,500 | |
| Rec. RPM | 7,500 | 6,000 | 4,700 | |

METRIC

| Grit | 30 mm x 15 mm x 6 mm | 40 mm x 20 mm x 6 mm | 60 mm x 30 mm x 6 mm | P. Qty |
|----------|----------------------|----------------------|----------------------|--------|
| | Art. No. | Art. No. | Art. No. | |
| 60 | 672.010316 | 672.010426 | 672.010636 | 5 |
| 80 | 672.010318 | 672.010428 | 672.010638 | |
| 120 | 672.010311 | 672.010421 | 672.010631 | |
| Max RPM | 25,400 | 19,100 | 12,700 | |
| Rec. RPM | 12,000 | 9,600 | 6,300 | |

Buff & Blend Wheels

BENEFITS

- Constructed of non-woven and coated abrasive material (A/O)
- High rate of cut while providing a uniform scratch pattern
- Smear-resistant formula
- Durable
- Permanently affixed 1/4" shank provides secure, safe and smooth running as well as ease of control for "off hand" operations
- Materials: ferrous, non-ferrous, aluminum, high nickel/chrome alloys and stainless steel

APPLICATIONS

- Designed for use on small straight pneumatic and electric grinders
- For removal of heavy oxidation prior to painting and/or plating
- For deburring and grain finishing stainless steel sheets after conventional coated abrasives
- For finishing stamped or extruded aluminum parts
- For satin finishing large surfaces
- For blending, cleaning and finishing on ferrous and non-ferrous materials when a linear scratch pattern is required and final finish is a primary concern



FEATURES

- Resists loading
- Cool running
- Long life

MATERIALS

- Ferrous
- Non-Ferrous
- Aluminum
- High Nickel / Chrome Alloys
- Stainless Steel

| Diameter x Width x Shank | Abrasive Grit | Non-Woven | Max. RPM | Art. No. | P. Qty |
|-----------------------------|---------------|-----------|----------|------------|--------|
| 2" x 1" x 1/4" | 60 | Medium | 11,000 | 588.898000 | 2 |
| | 80 | | | 588.898001 | |
| | 120 | Very Fine | | 588.898002 | |
| 3" x 1" x 1/4" | 180 | | 8,000 | 588.898003 | |
| | 120 | Very Fine | | 588.898006 | |
| 3" x 2" x 1/4" | 60 | Medium | | 588.898008 | |
| | 80 | | | 588.898009 | |
| | 180 | Very Fine | | 588.898011 | |

Grit Definition

VERY FINE BLEND

Blend minor surface imperfections handling marks, coated abrasives secondary burrs

MEDIUM DEBURR

Remove part lines from castings, small burrs from threaded pipes, flash from plastic molded parts

Blending Drums

+ Blend, polish and clean steel, stainless steel, aluminum and brass.

BENEFITS

- High quality fibres ensure a smooth, polished finish.
- The 4" width drums come with a dual 5/8-11 connection (one on each side). This allows the drum to be changed over to ensure even wear and to maximize service life

APPLICATIONS

- Blending, polishing, cleaning and brightening metal surfaces
- Suitable for use on hard plastics and wood
- Gently removes oxidization



| Diameter | Width | Arbour | Dual Arbour | Grit | Max. RPM | Art. No. | P. Qty |
|----------|-------|--------|-------------|--------|----------|------------|--------|
| 4-1/4 in | 2" | 5/8-11 | No | Coarse | 5,700 | 672.841221 | 1 |
| | | | | Medium | | 672.841222 | |
| | | | | Fine | | 672.841223 | |
| | 4" | | Yes | Coarse | | 672.850041 | |
| | | | | Medium | | 672.850042 | |
| | | | | Fine | | 672.850043 | |

Cartridge Rolls – Aluminum Oxide

ALSO KNOWN AS

Sanding Rolls, Tootsie Rolls, or Hard Rolls.

ROLLED STRIPS OF ABRASIVES, designed for metal removal on curved surfaces.



Constructed of Resin Bond for **ADDED DURABILITY**

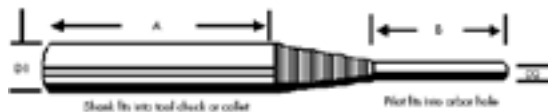
APPLICATIONS

- Ideal for engine porting, including intake manifold, head and exhaust manifold. Removes burrs from carburetor base and carburetor parts. Ideal solution for hard to reach areas
- Multi-layer, multi-wear design exposes new abrasive cutting points throughout the life of the roll
- Long lasting, Flash removal, polishing, removing machine tool marks and edge breaking

| Diameter | Length | Arbor Hole | Grit | Art. No. | P. Qty |
|----------|--------|------------|------|----------------|--------|
| 3/8" | 1-1/2" | 1/8" | 60 | 588.031 | 25 |
| | | 1/8" | 80 | 588.032 | |
| | | 1/8" | 120 | 588.033 | |
| | | 1/8" | 40 | 588.040 | |
| 1/2" | 1" | 1/8" | 60 | 588.041 | |
| | | 1/8" | 80 | 588.042 | |
| 5/8" | 1" | 3/16" | 80 | 588.050 | |



Mandrels for Cartridge Rolls



Plated steel with a shank diameter to fit a variety of power tool chucks or collets.

For safety considerations, the mandrel pilot length used to drive a cartridge roll should measure at least 1/2" less than the overall length of the cartridge roll. Example: If a cartridge roll measures 2" in overall length, the corresponding mandrel should have a pilot length of no less than 1 1/2".

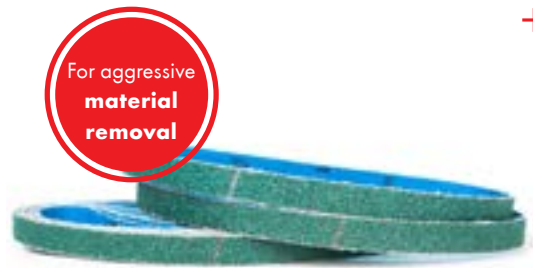
| D1 | O.A.L | A | B | D2 | Art. No. | P. Qty |
|------|--------|--------|------|-------|----------------|--------|
| 1/4" | 4" | 2-1/4" | 1" | 1/8" | 588.200 | 1 |
| | 2-3/4" | 1-1/4" | 3/4" | 3/16" | 588.100 | |



07 | GRINDING BELTS



Ceramic File Belts



+ Ceramic grain with cooling properties provides excellent stock removal extending the life of the belt.

FEATURES

- Ceramic grain
- Polyester backing
- Closed coating

ADVANTAGES

- Excellent stock removal
- Long life due to self-sharpening grain
- Cool grinding performance

APPLICATIONS

- Spot weld removal and clean up
- Wet and dry grinding
- Steel, stainless steel, and heat sensitive alloys

| Width | Length | Grit | Art. No. | P. Qty |
|-------|--------|------|------------|--------|
| 1/2" | 18" | 36 | 672.419003 | 10 |
| | | 80 | 672.419008 | |

Speed-X Non-Woven Belts



+ Versatile non-woven belt suitable for the clean-up of spot welds, paint and rust in tight working areas

FEATURES

- Aluminum oxide grain
- Polyester backing available in sturdy or flexible

ADVANTAGES

- Narrow belt allows access to hard-to-reach locations
- Suitable for dry and wet grinding
- High cut rate, reduced loading and low heat retention
- Long life

APPLICATIONS

- Steel, stainless steel, aluminum alloys, brass, bronze, plastic, nickel and titanium
- Removal of paint, seam sealer and adhesives
- Spot weld clean up
- Rust removal on sheet metal and vehicle brake component cleaning
- Surface conditioning and finishing
- Bumper repairs
- Gasket removal

| Image | Width | Length | Type | Backing | Art. No. | P. Qty |
|-------|-------|--------|--------------|--------------------|------------|--------|
| A | 1/2" | 18" | Extra Coarse | Polyester Sturdy | 585.716101 | 10 |
| B | | | Coarse | Polyester Flexible | 585.716100 | |

Ruby Portable Sanding Belts



+ Perfect for woodworking. Special open-coat design prevents the material from loading-up and extends life of belt.

FEATURES

- Premium heat-treated Aluminum Oxide resulting in a super tough, long lasting belts

| Width | Length | Grit | Art. No. | P. Qty |
|-------|--------|------|------------|--------|
| 3" | 21" | 40 | 675.040533 | 10 |
| 4" | 24" | | 675.040610 | |
| 3" | 21" | 60 | 675.060533 | |
| 4" | 24" | | 675.060610 | |
| 3" | 21" | 80 | 675.080533 | |
| 4" | 24" | | 675.080610 | |
| 3" | 21" | 100 | 675.100533 | |
| 4" | 24" | | 675.100610 | |
| 3" | 21" | 120 | 675.120533 | |
| 4" | 24" | | 675.120610 | |
| 3" | 21" | 150 | 675.150533 | |

08 | **QUICK STRIP DISCS**



Red Ceramic Quick Strip Discs



Aggressive,
flexible and
long lasting!

+ **Extremely fast cleaning and maximum service life when removing welding seams, scale corrosion and coatings.**

FEATURES

- Ceramic grain

ADVANTAGES

- High rate of material removal
- Long life due to self-sharpening grain
- Discs do not clog when sanding coatings, adhesives or soft metals

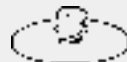
APPLICATIONS

- Cleaning and finishing welding seams, metal surfaces and plastics
- Cleaning vehicle underbodies and other body work
- Removing scale, corrosion, dirt and oxide layers, coatings, paints and dyes, old brushed-on coatings, synthetic resins, adhesives, gasket residues, cement and concrete residues.
- Materials to be processed: steel, stainless steel, aluminum, cast iron, fibreglass and composite materials.

| Diameter | Max. RPM | Art. No. | P. Qty |
|----------|----------|-------------|--------|
| 2" | 13,000 | 673.22250 * | 10 |
| 3" | 11,000 | 673.22275 * | |

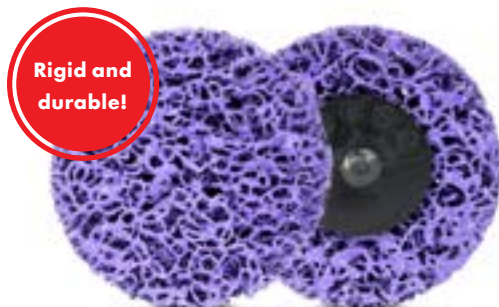


| Diameter | Max. RPM | Art. No. | P. Qty |
|----------|----------|------------|--------|
| 4-1/2" | 12,000 | 585.333115 | 10 |
| 5" | 12,000 | 585.333125 | |



* Compatible with 3M Roloc System

Purple Pro Quick Strip Discs – Type 'R'



Rigid and
durable!

FEATURES

- Premium coarse silicon carbide grain
- Roloc System compatibility

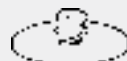
ADVANTAGES

- Safer, faster and smoother finish than steel wire wheels and other silicon carbide discs
- More durable than the leading competitor brands, resulting in longer life of disc

APPLICATIONS

- Removal of rust, paint, bead sealer, seam sealer, body filler and vehicle undercoating
- Metal cleaning, stripping and surface preparation

| Diameter | Max. RPM | Art. No. | P. Qty. |
|----------|----------|----------|---------|
| 2" | 18,000 | 585.4160 | 10 |
| 3" | 7800 | 585.4161 | |
| 4" | 6000 | 585.4162 | 5 |



Compatible with 3M Roloc System

Blue Quick Strip Discs – Type 'R'



Compatible with 3M Roloc System



- Effective in the removal of rust, paint, graffiti, undercoating and for metal cleaning prior to welding
- Much safer and faster than steel wire wheels
- Large nylon fibres allow for an open construction that resists loading, even on soft material
- Contains a coarse silicon carbide grain that promotes rapid removal of surface contaminants and leaves a smooth finish
- They have a much lower RPM rating than both the surface conditioning and sanding discs
- Competitor's discs are rated at the same RPM
- It is important that the disc be run flat and not at an angle

SAFETY NOTES

- Great care must be taken to run them at or below the listed RPM
- It is important that the disc be run flat and not at an angle

| Diameter | Max. RPM | Art. No. | P. Qty |
|----------------------------------|----------|-----------|--------|
| 2" | 12,000 | 585.2160 | 10 |
| 3" | 8,500 | 585.2161 | 5 |
| 4" x 1/4" | 6,000 | 585.2162* | 2 |
| 1/4" Arbor for Art. No. 585.2162 | | 585.11002 | 1 |

* Item is not compatible with 3M Roloc system

Nylon Fibre Discs



- Nylon fibre grinding discs silicon carbide, extra coarse
- Very versatile, ideally suited to form all shapes and contours
- Produces even finish without scores or scratches
- Not affected by paint, rust particles, tin, underbody seal, or body sealants
- Free from corrosive metals
- Resistant to water and solvents
- Long tool life
- May be used wet or dry

APPLICATIONS

- Cleaning welding seams, metal surfaces, wood and plastic
- Removing tempering color, scale, rust, corrosion, dirt and oxide layers, coatings, paints, old brushed-on coatings, synthetic resins, adhesives, gasket residues, cement and concrete residues
- Structuring, line matting, preparation and roughening up of surfaces
- Easy deburring work
- Cleaning vehicle body

| Diameter | Working Speed RPM | Art. No. | Arbor | Arbor Art. No. | P. Qty |
|----------|-------------------|----------|-------|----------------|--------|
| 4" | 3,500 – 4,500 | 585.1100 | 6 mm | 585.11001 | 1 |
| 6" | 2,500 – 3,000 | 585.1150 | 3/8" | - | - |

REPLACEMENT PART: 585.11001



09

BRISTLE DISCS



Bristle Type Discs



APPLICATIONS

- Head gaskets/gasket removal, rust removal, adhesive & paint removal, surface preparation

Abrasive disc designed to fit the Type 'R' Mandrel. The bristles (which are **impregnated with ceramic grit**) eat up rust, adhesive or paint residue, leaving a smooth surface with no marks. The open design prevents clogging and fragment fly-off during work.

| Description | Diameter | Grit | Art. No. | P. Qty |
|---------------|----------|------|-----------------|--------|
| Green Coarse | 1" | 50 | 585.5110 | 2 |
| Yellow Medium | | 80 | 585.5120 | |
| White Fine | | 120 | 585.5130 | |
| Green Coarse | 2" | 50 | 585.5210 | 1 |
| Yellow Medium | | 80 | 585.5220 | |
| White Fine | | 120 | 585.5230 | |
| Green Coarse | 3" | 50 | 585.5310 | 1 |
| Yellow Medium | | 80 | 585.5320 | |
| White Fine | | 120 | 585.5330 | |

10 | **WIRE BRUSHES**





WIRE BENCH WHEEL

- Unique, flexible bristle pattern conforms to most shapes and profiles
- Designed to remove oxidation, adhesive, paint and various other coatings
- Excellent for wider surfaces where flexibility is required for preparing surfaces prior to welding
- High cut rate provides a clean, uniform finish
- Can be mounted in multiples

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------|------------------------|-----------|-------|----------|--------|
| 8" | 1-3/4" | Steel | 1-1/4" Inc. 5/8" Adpt. | .020 | 4,500 | 714.6800 | 1 |



WIRE BENCH WHEEL

- Unique, flexible bristle pattern conforms to most shapes and profiles
- Designed to remove oxidation, adhesive, paint and various other coatings
- Excellent for preparing surfaces prior to welding
- High cut rate provides a clean, uniform finish

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------|------------|-----------|-------|----------|--------|
| 6" | 1-3/4" | Steel | 5/8-11 NC | .020 | 6,000 | 714.6900 | 1 |



KNOT WIRE WHEEL BRUSH

- Surfaces preparation, cleaning grooves, T-connections and welded beads

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|-----------------|-------------|-----------|--------|-----------|--------|
| 4" | 7/8" | Steel | 5/8 - 11 NC | .014 | 20,000 | 714.26359 | 1 |
| | | Stainless Steel | | .014 SS | | 714.26376 | |
| | | Steel | | .020 | | 714.26392 | |
| 5" | 1" | Stainless Steel | | .020 SS | 12,000 | 714.26386 | |
| | | Steel | | .020 | | 714.26256 | |



STRINGER BEAD WHEEL BRUSH

- Excellent for bead scale removal
- The small width of this brush allows it to be used in recessed areas such as welding junctions in pipeline fabrication

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|-----------------|-------------|-----------|--------|-----------|--------|
| 4" | 7/8" | Steel | 5/8 - 11 NC | .020 | 20,000 | 714.26369 | 1 |
| | | Stainless Steel | | | | 714.26399 | |
| 5" | 1" | Steel | | | 12,000 | 714.26495 | |
| | | Stainless Steel | | | | 714.26468 | |
| 6" | 1-1/2" | Steel | | | | 714.26032 | |
| | | Stainless Steel | | | | 714.26112 | |


SAFETY LONG LIFE WIRE BRUSH (MULE SKINNER)

- Ideal for the preliminary cleaning of metals which are intended to be painted or coated
- For the removal of slag, rust and paint
- High level of safety and long service life
- Even removal of material

| Diameter | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|---|------------|-----------|--------|-----------------|--------|
| 60 mm | Corrugated Steel Wire, Brass Coated, bound in Plastic | 13 mm | 0.3 mm | 12,500 | 714.6907 | 1 |


ARBOR FOR MULE SKINNER

- For Safety Longlife Brush

Art. No. 714.6908

WIRE BRUSH WITH SHANK

- Oil hardened cast steel wire
- Right braided
- For removal of rust, paint, scale, welding residue and underbody seal

| Diameter | Material | Wire Size | RPM | Art. No. | P. Qty |
|----------|---------------|-----------|--------|-----------------|--------|
| 3" | Braided Steel | .05 mm | 20,000 | 714.6906 | 1 |


WIRE BRUSH WITH SHANK

- For light duty deburring and rust removal work
- Particularly well suited for automotive applications, cleaning of weldings

| Diameter | Material | Wire Size | RPM | Art. No. | P. Qty |
|----------|------------------------|-----------|--------|-----------------|--------|
| 1 1/2" | Steel Wire, Corrugated | 0.2 mm | 18,000 | 714.6910 | 1 |
| 2 3/8" | | 0.3 mm | 15,000 | 714.6911 | |


SURFACE BRUSH WITH SHANK

- For grinding of large surfaces.

| Diameter | Shank | Material | Wire Size | RPM | Art. No. | P. Qty |
|----------|-------|---------------|-----------|-------|-----------------|--------|
| 60 mm | 6 mm | Crimped Steel | 0.3 mm | 4,500 | 714.6912 | 2 |
| 70 mm | | | | | 714.6913 | |



KNOT WIRE CUP BRUSH

- For heavy-duty cleaning of large metal surfaces and specially designed for use on portable tools

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|-----------|------------|-----------|-------|------------------|--------|
| 6" | 1-3/4" | Steel | 5/8-11" | .020 | 6,000 | 714.33015 | 1 |
| | | Stainless | | .020 SS | | 714.33049 | |



KNOT STYLE CUP BRUSH

- High speed small grinder knot wire cup brush

| Diameter | Length | Material | Arbor Hole | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|-----------------|------------|-----------|--------|-----------|--------|
| 2-3/4" | 7/8" | Stainless Steel | 5/8-11" | .020 | 14,000 | 714.33467 | 1 |
| 3-1/2" | | Steel | | | 12,500 | 714.33000 | |
| | | Stainless Steel | | | 12,500 | 714.33001 | |



BRAIDED STEEL WIRE POT BRUSH

- Ideal for the preliminary cleaning of metals
- For the removal of slag, rust and paint

| Diameter | Thread | Wire Size | RPM | Art. No. | P. Qty |
|----------|---------|-----------|--------|-----------------|--------|
| 70 mm | M14 | 0.5 mm | 12,500 | 714.6901 | 1 |
| 2-3/4" | 5/8-11" | | | 714.6958 | |



KNOT WIRE END BRUSHES - STEEL

Spot cleaning or facing; removal of slag, rust or scale; cleaning pipe I.D.; deburring or flash removal; cleaning dies, molds and tooling; pipeline cleaning. Can be used on CNC equipment.

| Diameter | Length | Shaft Diameter | Wire Size | RPM | Art. No. | P.Qty |
|----------|--------|----------------|-----------|--------|-----------|-------|
| 1/2" | 1-1/8" | 1/4" | 0.006 | 22,000 | 714.30002 | 1 |
| 3/4" | | | 0.014 | | 714.30005 | |
| | | | 0.006 | 20,000 | 714.30008 | |
| | | | 0.014 | | 714.30011 | |
| | | | 0.104 | | 714.30016 | |
| 1" | | | 0.014 | | 714.30017 | |



KNOT WIRE END BRUSHES - STAINLESS STEEL

Spot cleaning or facing; removal of slag, rust or scale; cleaning pipe I.D.; deburring or flash removal; cleaning dies, molds and tooling; pipeline cleaning.

| Diameter | Length | Shaft Diameter | Wire Size | RPM | Art. No. | P. Qty |
|----------|--------|----------------|-----------|--------|------------------|--------|
| 1/2" | 1-1/8" | 1/4" | .014 | 22,000 | 714.30429 | 1 |
| 3/4" | | | | 20,000 | 714.30435 | |
| 1" | 1" | | | | 714.30441 | |

11 | CARBIDE BURRS & HONING STONES



Carbide Burrs

- Carbide material offers much longer tool life compared to common tool materials
- Suitable for work on hard/exotic materials
- Crossed pattern is universally suitable for working on stainless steels, high strength steel, black iron, welding seams, hard plastics, hardened steels



CYLINDRICAL TYPE

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|--------------|---------|
| 1/4" | 1/4" | 5/8" | 2" | 616.160616 | 1 |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.161019 | |
| 1/2" | 1/4" | 1" | 2 3/4" | 616.112001 | |
| 1/4" | 1/8" | 1/2" | 2" | 616.114012 * | |



CYLINDRICAL ROUND TYPE

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|----------------|---------|
| 1/4" | 1/4" | 3/4" | 2" | 616.260616 | 1 |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.261025 | |
| 1/2" | 1/4" | 1" | 3" | 616.212034 * | |
| 1/4" | 1/8" | 1/2" | 1 3/4" | 616.214012 * | |
| 3/8" | 1/4" | 3/4" | 6 3/4" | 616.238034 | |
| 1/2" | 1/4" | 1" | 2 3/4" | 616.461322 * † | |

* Aluma Cut † Tapered



BALL TYPE

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|------------|---------|
| 1/4" | 1/4" | 1/4" | 2" | 616.314014 | 1 |
| 3/8" | 1/4" | 5/16" | 2 1/8" | 616.338038 | |
| 1/2" | 1/4" | 7/16" | 2 1/4" | 616.312012 | |

TAPERED TYPE / TREE SHAPED RADIUS

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|--------------|---------|
| 1/2" | 1/4" | 1" | 2 3/4" | 616.561332 | 1 |
| 1/4" | 1/4" | 3/4" | 2" | 616.514034 | |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.538078 | |
| 1/4" | 1/8" | 1/2" | 2" | 616.514012 * | |
| 1/2" | 1/4" | 1" | 7" | 616.512001 | |
| 3/8" | 1/4" | 3/4" | 6 3/4" | 616.538034 * | |

CONICAL TYPE / TREE SHAPED POINTED

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|--------------|---------|
| 1/4" | 1/4" | 11/16" | 2" | 616.660616 | 1 |
| 3/8" | 1/4" | 3/4" | 2 1/2" | 616.661019 | |
| 1/8" | 1/8" | 1/2" | 1 1/2" | 616.618012 * | |
| 1/2" | 1/4" | 1" | 3" | 616.612001 | |

OVAL SHAPED TYPE

| Head Dia. | Shank Dia. | Flute Length | Overall Length | Art. No. | P. Qty. |
|-----------|------------|--------------|----------------|------------|---------|
| 1/4" | 1/8" | 3/8" | 1 7/8" | 616.714716 | 1 |

* AVAILABLE ONDEMAND

Carbide Burr Assortments

Art. No. 616.105



CARBIDE BURRS

Contains: 5 Pieces

- (A) Art. No. 616.160616
- (B) Art. No. 616.260616
- (C) Art. No. 616.561332
- (D) Art. No. 616.661019
- (E) Art. No. 616.461322

Art. No. 616.305

EXTENDED CARBIDE BURRS

Contains: 4 pieces with a 1/4" shank

- 1 x 3/8" dia., ball nose cylinder, double cut - 6 3/4"
- 1 x 3/8" dia., conical type/tree shaped pointed, double cut - 6 3/4"
- 1 x 1/2" dia., tapered type/tree shaped radius, double cut - 7"
- 1 x 1/2" dia., ball type, double cut - 6 1/2"



Art. No. 616.205

MINI CARBIDE BURRS

Contains: 9 pieces with a 1/8" shank and 1/4" head

1 x cylindrical type - 1/8", 1 x cylindrical type with teeth on end face - 1/8", 1 x inverted conical type - 1/8", 1 x ball nose cylinder - 1/8", 1 x ball type - 1/8", 1 x ball nose cylinder - 1/8", 1 x tapered type/tree shaped radius - 1/8", 1 x conical type/tree shaped pointed - 1/8", 1 x conical type/tree shaped pointed - 1/8"



Honing Stone Set

Art. No. 680.10 10 pc. set



+ A set of 10 stones for precise bore sizing, deburring and surface finishing

Contents: one of each size below

Available quality: special fused alumina

Binding: ceramically bound

Color: pink

Shaft diameter: 6 mm

Specially suitable for grinding of steel

| Ø x L mm | Grit | Description acc. DIN 69170 | Grinding Wheel Head | Picture No. | Art. No. | Individual Order Qty. | P. Qty. |
|------------|------|----------------------------|---------------------|-------------|----------|-----------------------|---------|
| 20 x 30 | 30 | ZY | Cylinder | 5 | 680.75 | 5 | 1 |
| 13 x 20 | 30 | ZY 1320 | Cylinder | 4 | 680.72 | | |
| 20 x 12 | 30 | ZY | Disc | 2 | 680.74 | | |
| 20 x 20 | 30 | KE 2020 | Conical | 7 | 680.21 | | |
| 13 x 20 | 30 | SP 1320 | Tapered | 8 | 680.41* | 10 | |
| 10 x 13 | 46 | ZY1013 | Cylinder | 3 | 680.71* | | |
| 20 x 6 | 46 | ZY 2006 | Disc | 1 | 680.73* | | |
| 20 x 25 | 30 | WK 2025 | Cylindrical Cone | 10 | 680.51* | | |
| 20 x 25 | 30 | WK 2025 | Cylindrical Round | 9 | 680.61* | | |
| 16 | 30 | KU 16 | Round | 6 | 680.31* | | |

* AVAILABLE ONDEMAND

12 | GRINDING TOOLS



1/4" Medium Die Grinder

Art. No. 703.210 P. Qty. 1



FEATURES

- Positive Grip – 1/4" capacity collet chuck
- Compact and lightweight design
- Lever throttle for variable speed control
- Rib textured handle provides a firm grip
- Rear exhaust air flow system directs air away from work surface

SPECIFICATIONS

- Collet size: 1/4"
- Free speed: 22,000 rpm
- Overall length: 5-3/4"/146 mm
- Net weight: 1-1/4 lbs/.6 kg
- Motor: 1/3 hp
- Air inlet thread NPT: 1/4"
- Air hose I.D. size: 3/8"/10 mm
- Avg. air consumption: 4 cfm
- Air pressure: 90 – 120 psi

1/4" 90° Die Grinder

Art. No. 703.00875 P. Qty. 1



FEATURES

- Positive Grip – 1/4" capacity collet chuck.
- Lever throttle for variable speed control.
- Compact and lightweight design.
- Front exhaust.

SPECIFICATIONS

- Collet size: 1/4"
- Free speed: 20,000 rpm
- Overall length: 5"/127 mm
- Net weight: 1 lbs/.45 kg
- Motor: 1/3 hp
- Air inlet thread NPT: 1/4"
- Air hose I.D. size: 3/8"/10 mm
- Avg. air consumption: 3 cfm
- Air pressure: 90 – 120 psi

Quick Deburring Tool

Art. No. 714.4207 P. Qty. 1

FEATURES

- Metal blade mount
- Sturdy design
- 150 mm Length

APPLICATION

- Deburring of edges, pipes and metal sheets



Pivot mounted blade that adapts to contours of the workplace.



PNEUMATIC BELT SANDER

Angle Grinder

| Description | Size | Art. No. | P. Qty |
|---------------|------|----------|--------|
| Angle Grinder | 4.5" | 008.1375 | 1 |

FEATURES

- Compact and lightweight
- Vibration control handle reduces vibration up to 60%
- Rear handle trigger with lock-on/off switch for extended use applications
- Sealed switch keeps debris out of the switch mechanism
- Adjustable guard
- Epoxy coated field windings

BENEFITS

- Powerful & durable for the most demanding jobs
- Provides uncompromising user comfort for extended periods of work
- Increases longevity of tool life
- Minder™ brushes eliminates guesswork, stops the tool when preventative maintenance is required
- Efficient guard installation and adjustments
- Coated field windings provides the ultimate protection against abrasive dust and metal debris

+ Note: Does not have an automatic electronic clutch



CONTENTS

- Guard
- Vibration dampening side-handle

| Technical data | 4.5" Angle Grinder | 5" Angle Grinder |
|----------------|--------------------|------------------|
| Amperage | 6 | 9.5 |
| No load RPMs | 11,000 | 11,000 |
| Wheel diameter | 4-1/2" | 5" |
| Spindle thread | 5/8" - 11 | |
| Length | 10-1/2" | 14-3/4" |
| Weight | 3.75 lbs | 5.1 lbs |

Pneumatic Belt Sander – 1/2" x 18"

Art. No. 703.2712



Recommended Belts:

Prefix: 672.419...
585.716...



Art. No. 703.271201



Idle Pull Assembly for 703.2712

NOTE: All other spare parts and accessory can be purchased through special orders.

+ Belt sander for removing spot welds and rough edges

FEATURES

- Variable speed control
- Belt tension lever
- Non-slip handle grip
- Adequate space in the pulley system to allow for thicker belts

Technical Information:

| | |
|-----------------|------------------|
| Free Speed | 16,000 rpm |
| Size of Belt | 1/2" X 18" |
| Air Consumption | 4 cfm |
| Overall Length | 15.15" (385mm) |
| Net Weight | 1.98 lbs (0.9Kg) |
| Air Inlet | 1/4" |
| Air Pressure | 90 psi |

+ Note: Spare parts and accessories can be purchased through special orders

13

SAFETY & PPE



Barracuda Safety Goggle and Shield



+ Eye and face protection in one product!

| Description | Art. No. | P. Qty. |
|---|------------|---------|
|  Clear, Anti-Fog | 899.103222 | 1 |

AREAS OF APPLICATION

General purpose for indoor or outdoor applications that require impact, dust and chemical protection.



FEATURES

- W2X anti-fog coated, polycarbonate lens
- Fits over prescription glasses
- Soft vinyl goggle body conforms to facial contours
- Removable vent caps
- 4 ventilation holes provide appropriate airflow
- Removable and adjustable polycarbonate face shield
- Fully adjustable elastic band
- Includes 2 disposable tear-off shield covers

BENEFITS

- Goggle provides protection against dust and chemical splash
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection
- Removable vent caps allow the user to remove when more ventilation is required or leave in place for unsurpassed chemical splash resistance
- Goggle incorporated with removable shield provides full face protection
- Polycarbonate shield conforms to the face offering increased impact and dust protection

STANDARDS

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved



FISSION Safety Glasses



| Description | Art. No. | P. Qty. |
|-----------------------|------------|---------|
| Grey | 899.103201 | 1 |
| Clear | 899.103200 | |
| Clear, Anti-fog | 899.103202 | |
| Indoor/Outdoor Mirror | 899.103203 | |
| Anti-Fatigue Blue | 899.103204 | |

AREAS OF APPLICATION

General purpose for indoor or outdoor applications that require impact, protection.



+ **Lightweight and comfortable safety glasses that is suitable for any environment.**

FEATURES

- Scratch-resistant, polycarbonate Lens
- Integrated nose piece
- Soft, non-slip rubber temple
- Economical wrap-around unilens

BENEFITS

- Lightweight, comfortable and flexible
- Unilens provides full panoramic view
- Rubber temples provide non-binding fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

LENS TECHNOLOGY

- **Clear lens** provide impact resistance
- **W2X Anti-fog lens** keeps the inside lens from fogging up and obstructing view
- **Grey lens** offers protection from excessive glare
- **Anti-fatigue blue lens** offers protection where there is an excessive amount of yellow light. Reduces eye strain and fatigue
- **Indoor/outdoor mirror lens** provides 100% protection from harmful UV rays. Used between indoor and outdoor applications

STANDARDS

- SEI CAN/CSA Z94.3-15 Approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

NOVA Foam Lined Safety Glasses



| Description | Art. No. | P. Qty. |
|-----------------|------------|---------|
| Clear, Anti-fog | 899.103218 | 1 |
| Grey, Anti-fog | 899.103220 | |

AREAS OF APPLICATION

General purpose for indoor and outdoor applications that require impact protection.



+ **Comfortable and lightweight safety glasses with integrated foam padding to limit eye exposure to dust particles.**

FEATURES

- W2MAX anti-fog coated
- Scratch resistant, polycarbonate lens
- Removable flame resistant foam padding
- Soft integrated nose piece
- Soft, non-slip rubber temple

BENEFITS

- Wrap-around lens provides excellent side protection
- Slim co-injected temples for snug, secure fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection

LENS TECHNOLOGY

- W2MAX creates a high performing, superior anti-fog coating that is durable enough to withstand repeated cleaning without losing adhesion
- W2MAX ensures maximum clarity in the most extreme temperatures and humidity conditions
- Flame resistant foam padding helps limit eye exposure to dust and particles while providing additional cushioning
- **Clear lens** provide impact resistance
- **Grey lens** offers protection from excessive glare

STANDARDS

- SEI CAN/CSA Z94.3-15 approved
- Exceeds ANSI Z87.1 High impact requirements
- CE EN166 approved

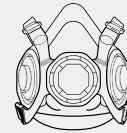
Professional Respirator Kit



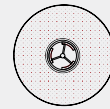
FEATURES & BENEFITS

- NIOSH OV-AG/P100 approved
- Provides at least 99.97% filtration efficiency against certain particles such as lead, asbestos, cadmium, arsenic and MDA.
- Layer of activated carbon provides comfort relief against nuisance levels of organic vapour, acid gas
- Silicone half mask provides greater softness, comfort and durability
- Completely assembled and individually packed in resealable foil bags
- Heavy duty adjustable head straps for comfort and safety
- Compatible with a variety of protective eyewear and hearing protection
- Includes Bonus Hygiene Guard & Shape Retainer insert
- Replaceable particulate filters

INCLUDES



+



1 x Würth Half Mask Respirator

4 x OV/AG Particulate Filter (899.08200)

| Size | Art. No. | P. Qty. |
|--------|------------|---------|
| Medium | 899.089290 | 1 |
| Large | 899.089390 | |

+ All-in-one respirator kit that is NIOSH approved for respiratory protection against a wide range of oil and non-oil based particulate contaminants

APPLICATIONS

- Use for a variety of applications including welding, brazing, torch cutting, metal pouring, soldering, agriculture, construction, general manufacturing, pharmaceuticals and primary metals

WARNING: "Nuisance Level" refers to concentrations not exceeding OSHA PEL or applicable government standards, whichever is lower. This filter does not provide lung protection against organic vapours or acid gases. Do not use in or around sandblasting. This product does not supply oxygen. Read and understand instructions and warnings before using this product.

Professional Series Half-Mask Respirator



+ Provides respiratory protection against particulates and a wide variety of gases and vapours when used with approved cartridges and filters

FEATURES & BENEFITS

- NIOSH Approved
- Soft, silicone rubber for highest level of comfort and durability
- Exhalation valve helps make breathing easier and can offer cooler and drier comfort
- Can be disassembled, cleaned and **reused**
- Easy to clean- dried paint easily removed from flexible silicone material
- Comfortable, easy-to-adjust head straps
- Bonus Hygiene Guard included for clean storage and product protection
- For use with Würth cartridges and filters (sold separately)
- Comes with sealable storage bag

APPLICATIONS

- Sawing, masonry, machining, laboratories, painting, cleaning, grinding, pouring/casting, chemical handling, chemical clean-up, sanding, welding, assembly and mechanical, chipping, furnace operations, chiseling

| Size | Art. No. | P. Qty. |
|--------|------------|---------|
| Medium | 899.879250 | 1 |
| Large | 899.879350 | |

NOTE: These respirators help reduce exposure to certain airborne contaminants. Misuse may result in sickness or death. Before use, the wearer must read and understand User Instructions provided as a part of product packaging.

N95 Disposable Particulate Respirators

Art. No. 899.081730 P. Qty: 20/BX



+ Disposable N95 particulate respirator designed to provide comfortable and reliable worker respiratory protection against certain non-oil based particles

FEATURES & BENEFITS

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Electrostatically-charged filter media provides low breathing resistance
- Latex-free, staple-free head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Contoured formable aluminum nose-clip
- More durable double-shell construction for long life and better value
- Compatible with a variety of protective eyewear and hearing protection

APPLICATIONS

- Grinding, sanding, sweeping, sawing, bagging or other dusty applications

Art. No. 899.122047 P. Qty: 10/BX



+ Disposable N95 particulate respirator with an exhalation valve, designed to provide comfortable and reliable worker respiratory protection against certain non-oil based particles

FEATURES & BENEFITS

- NIOSH N95 Approved
- Provides at least 95% filtration efficiency against certain non-oil based particles
- Premium oversized valve opens more easily to expel hot air for cool comfort
- Electrostatically-charged filter media provides low inhalation breathing resistance
- Latex-free, staple-free head straps for comfort and safety
- Soft foam nose cushion for more comfort
- Contoured formable aluminum nose-clip
- More durable double-shell construction for long life and better value
- Compatible with a variety of protective eyewear and hearing protection

APPLICATIONS

- Grinding, sanding, sweeping, sawing, bagging or other dusty applications

WARNING: Not NIOSH approved for ozone protection, organic vapours or acid gases. "Nuisance Level" refers to concentrations not exceeding the OSHA PEL or applicable government standards for exposure limits, whichever is lower. Do not use in or around sandblasting. This product does not supply oxygen.

Mechanic's Glove Cut Plus



+ Mechanic's style glove that offers protection for impact and cut hazards in the toughest jobs

FEATURES & BENEFITS

- Versatile mechanics style glove
- Soft, flexible TPR protects back of hand against impacts
- HDPE fibres around the palm surfaces for added cut protection
- Anti-Slip palms for enhanced grip in oily conditions
- Neoprene cuff with hook and loop closure
- EN388 CUT Level 5
- CATII / EN388 Performance level: 4.5.4.4.

- Reinforced patches on parts subject to wear and tear
- Durable triple seam in the palms
- Extremely breathable thanks to elastic polyester fabric on back

APPLICATIONS

For applications that need cut protection and abrasion resistance such as handling of sharp tools and work pieces, construction, warehousing and logistics tasks, mechanic and workshop tasks, working with hand tools and machines



| Sizes | Art. No. | P. Qty |
|---------------|------------|--------|
| Medium / 8 | 899.401248 | 1 |
| Large / 9 | 899.401249 | |
| X Large / 10 | 899.401250 | |
| XX Large / 11 | 899.401251 | |

EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------|------------------|
| Wear resistance |0 - 4 |
| Cutting resistance |0 - 5 |
| Tear resistance |0 - 4 |
| Penetration resistance |0 - 4 |



MECHANIC'S GLOVES

Fit, Feel, Functionality and Style all in one

ASK YOUR REP ABOUT OUR FULL LINE OF GLOVES!



Mechanic's Glove Pro

+ Mechanic's style glove with an integrated magnet on the back of the hand to attach small tools and fasteners



FEATURES & BENEFITS

- Versatile mechanics style glove
- Soft, flexible TPR protects back of hand against impacts
- Magnetic strip on back of hand
- Synthetic leather palms
- Padded palms to help against vibration and impacts
- Neoprene cuff with hook and loop closure
- CATII / EN388 Performance level: 2.2.3.1.

- Reinforced patches on parts subject to wear and tear
- Durable triple seam in the palms
- Extremely breathable thanks to elastic polyester fabric on back

APPLICATIONS

For light to medium mechanical work such as construction, warehouse and logistics work, assembly work, mechanic and workshop activities, activities with hand tools and machines



EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0 - 4 |
| Cutting resistance | 0 - 5 |
| Tear resistance | 0 - 4 |
| Penetration resistance | 0 - 4 |



| Sizes | Art. No. | P. Qty |
|--------------|-------------------|--------|
| Medium / 8 | 899.400748 | 1 |
| Large / 9 | 899.400749 | |
| X Large / 10 | 899.400750 | |

TIGERFLEX Cut 5/500 Gloves

+ These gloves are ultra-lightweight, form fitting and heavy on protection. Micro foam nitrile palm coatings with additional Tiger Grip offers superior grip.



EN 388: Mechanical risks

| Test criteria | Assessment gauge |
|------------------------------|------------------|
| Wear resistance | 0 - 4 |
| Cutting resistance | 0 - 5 |
| Tear resistance | 0 - 4 |
| Penetration resistance | 0 - 4 |



| Size | Art. No. | P. Qty. |
|---------------|-------------------|---------|
| Small / 7 | 899.451357 | 1 |
| Medium / 8 | 899.451358 | |
| Large / 9 | 899.451359 | |
| X Large / 10 | 899.451360 | |
| XX Large / 11 | 899.451361 | |

FEATURES

- 13-Gauge blue HPPE/Glass fiber liner
- Micro Foam nitrile palm coating with additional Nitrile Tiger Grip
- Elasticated cuffs
- High oil resistance due to special nitrile coating.
- CE Certified; conform to EN420 / EN388
- CATII / EN388 Performance level: 4.5.4.3.

BENEFITS

- Lightweight, form fitting 13-Gauge construction delivers superior dexterity and comfort.
- HPPE/Glass fibre blend offers the highest Cut 5 protection
- Excellent grip and protection allowing for maximum flexibility and dexterity
- Oil-repellent and water-repellent

APPLICATIONS

Glass handling, sheet metal work, cutting applications, bottling and canning, building and construction work.

Ear Defenders With A Universal Headband



Art. No. 899.300430

Features:

- Headband with ventilation holes
- Wide and comfortable sealing pads
- Suitable for wearing with glasses or safety glasses
- Lightweight: only weighs 210 g!

Benefits:

- Robust design due to wire headband
- Supreme comfort
- Hygienic and easy to clean
- Great insulation, even in the low range
- Allows speech to be heard while worn

Standards:

- SNR 24 dB
- H – 28 dB
 - M – 21 dB
 - L – 14 dB

Ear Plug Dispenser



Art. No. 899.300335

FEATURES

- Easy-to-use and robust ear plug dispenser
- Wall mountable
- Fits 400 Pairs
- Ear plugs sold separately

BENEFITS

- Grid rotation system prevents multiple plugs from falling out
- Catch shelf prevents the plugs from falling to the floor

Ear Plugs X-200



Art. No. 899.300337 Qty: 200 PR/BG

FEATURES

- Pink Colour for easy visibility
- Imprinted X
- Soft polyurethane foam material
- Tapered fit
- Disposable

BENEFITS

- Very comfortable to wear for extended periods of time
- Slow recovery foam provides excellent and reliable noise reduction
- Closed surface prevents the penetration of foreign bodies and dirt particles in the plugs
- Tapered ear plugs are easy to insert and remove

STANDARDS

- SNR 33 dB
- H – 33 dB
 - M – 30 dB
 - L – 29 dB

Folding Ear Plug Band X-300



Art. No. 899.300341

FEATURES:

- Hinged joints allow band to fold
- Designed to wear under the chin
- Oval pod shape
- Lightweight at only 8 g!



RECOMMENDED

Replacement Pods:
899.300340 / Qty: 5 PR

BENEFITS

- Hinged joint allows folding so that it can be placed and carried practically and comfortably in any shirt or jacket pocket
- Fixing of the band prevents disturbing noises caused by friction
- Oval plugs perfectly close up the ear canal
- Tapered ear plugs are easy to insert and remove

STANDARDS

- SNR 23 dB
- H – 26 dB
 - M – 18 dB
 - L – 17 dB

YOUR FAVOURITE
PRODUCT IS JUST A

**CLICK
AWAY!**



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