

FOOD / BEVERAGE INDUSTRY





Contents

- **NSF food approved products - Cleaning**

-
- **Power/hand tools**

-
- **Cutting and drilling**

-
- **Glues and sealers**

-
- **Stainless Steel fasteners**

-
- **PPE**

-
- **Batteries**
-

For further product and technical data, please use link below:

<http://eshop.wuerth.de/de/DE/EUR>



H2 = without
indirect contact

H1 = with
indirect contact

H1 = with
indirect contact

H1 = with
indirect contact

H1 and K1 can
be used with indirect
contact and as cleaner
containing solvents



1 Rost Off Crafty

Synthetic, biodegradable high-performance
rust remover with food registration

Content: 300 ml

Art. No. 0893 130

P. Qty. 1/24

2 Food-Safe Lubricating Oil

Creepable, colorless special lubricant for the
food processing industry and for the beverage,
pharmaceutical and hospital sector

Content: 300 ml

Art. No. 0893 107 1

P. Qty. 1/6

3 Multi Plus

Synthetic, physiologically safe multi-function
spray with high-end properties for universal use

Content: 400 ml

Art. No. 0893 056

P. Qty. 1/12

4 Multiclean

Fluid for cleaning and temporary lubrication in
physiologically and ecologically sensitive areas

Content: 400 ml

Art. No. 0890 109 6

P. Qty. 1/12



Multi-Purpose Grease III

Physiologically safe, colorless grease with
multi-functional additive combination

Content: 400 g

Art. No. 0893 107 002

P. Qty. 1/24

Multi-Purpose Grease IV

Synthetic high-performance grease with
white solid lubricants

Content: 400 g

Art. No. 0893 107 003

P. Qty. 1/24

5 Silicon Fluid

High-quality, physiologically safe anti-
friction and release agent

Content: 400 ml

Art. No. 0893 221 000

P. Qty. 1/12



Stainless-Steel Power Cleaner

Special cleaning fluid for pre-cleaning metal surfaces.

Content: 500 ml
Art. No. 0893 121 2
P. Qty. 1/12



A1 = aqueous basic cleaner



LMS Fluid

Physiologically safe special lubricant on a paraffin oil base

Content: 400 ml
Art. No. 0893 107 001
P. Qty. 1/12



H1 = with indirect contact



Metal Restorer

Metal abrasive paste for removing stubborn dirt on metallic surfaces (e.g. stainless steel), glass, ceramic and ceran

Content: 400 g
Art. No. 0893 121 1
P. Qty. 1/12



A7 = aqueous cleaner for metal



Foodstuffs HHS®

Creepable, watertight, synthetic adhesive lubricant

Content: 500 ml
Art. No. 0893 107 6
P. Qty. 1/12



H1 = with indirect contact



Silicone Acetate, Food Grade

Special, high-quality sealant for sealing in food processing and drinking water sector, as well as for aquarium construction

Color	Content in ml	Art. No.	P. Qty.
Transparent	310	0892 550 1	12
White		0892 550 2	
Stainless steel		0892 550 3	
Silver		0892 550 4	



NSF/ANSI Standard 61



Bond + Seal POWER

Heavy-duty, elastic hybrid construction adhesive
Content: 300 ml

Color: white
Art. No. 0893 235 1
P. Qty. 1/12

Color: gray
Art. No. 0893 235 2
P. Qty. 1/12

Color: black
Art. No. 0893 235 3
P. Qty. 1/12



P1 = various



CLEANING AND CARE





Stainless Steel Care Oil

Quick and easy visual processing of metallic surfaces

Content: 400 ml
Art. No. 0893 121 0
P. Qty. 1/12



Stainless-Steel Care Spray

Cleansing care emulsion for metallic surfaces

Content: 400 ml
Art. No. 0893 121
P. Qty. 1/12



Bond + Seal

Elastic PU adhesive and sealant for a broad range of uses

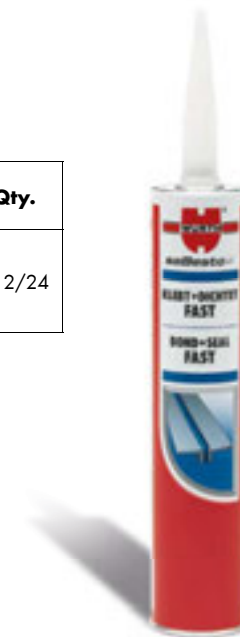
Color	Content in ml	Art. No.	P. Qty.
White	300	0890 100 1	1/12/24
Gray		0890 100 2	
Black		0890 100 3	
Dark brown		0890 100 4	1/12
Light brown		0890 100 5	
Sand beige		0890 100 6	



Bond + Seal FAST

Fast-acting, brushable PU sealant

Color	Content in ml	Art. No.	P. Qty.
White	300	0890 100 710	1/12/24
Gray		0890 100 720	
Black		0890 100 730	



1 Removing dirt / slight rust film

Initial situation: Very dirty sheet with slight rust film



- Apply **metal cleaner** sparingly



- Rub the metal cleaner into the surface with a **textile cloth** in the grinding direction



- Allow it to take effect for approx. 10 minutes
- Next, remove the paste with a textile cloth
- Then clean thoroughly with the **micro active cloth** and water

Final result



Advantages

- Metal cleaner has NSF approval (foodstuffs approval)
- Harmless ingredients such as citric acid and alumina allow an extremely wide range of uses

Products

- Metal cleaner, **Art. No. 0893 121 1**
- Professional micro active cloth, blue, **Art. No. 0899 900 131**
- Textile cloth, **Art. No. 0899 800 901**

2 Removing slight dirt

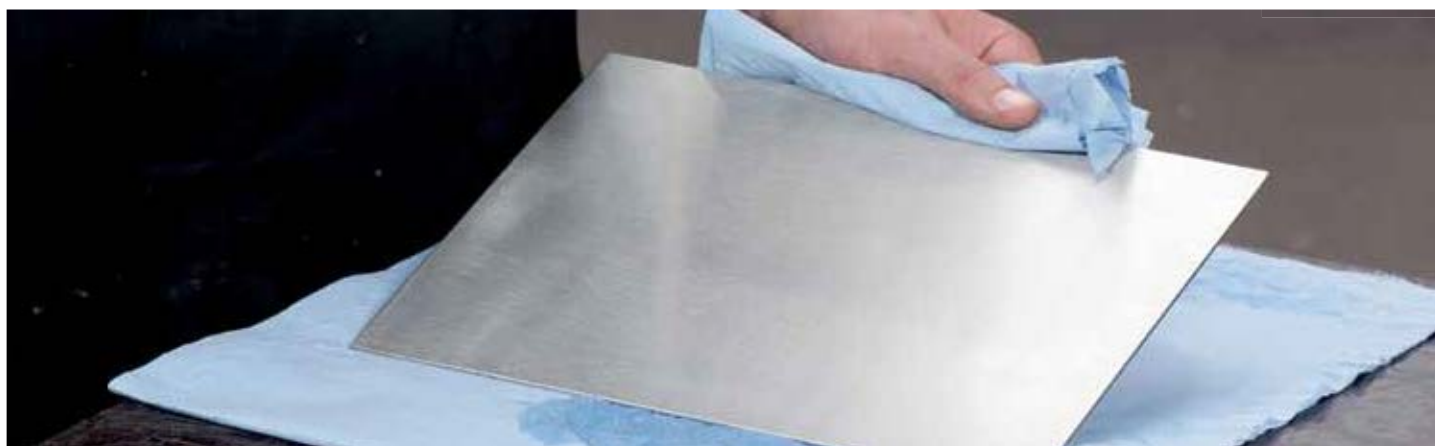
Initial situation: Slightly dirty



Cleaning



- Spray the **stainless steel power cleaner** onto the dirty surface, wait a short time to allow it to take effect and clean thoroughly with a **textile cloth**
- If necessary, support the cleaning process with a sponge or brush



Care



- Treatment with **stainless steel care oil** optimizes the cleaning and care effect, thereby ensuring a perfect surface finish



Final result



Products

- Stainless steel power cleaner, **Art. No. 0893 121 205**
- Stainless steel care oil, **Art. No. 0893 121 0**
- Textile cloth, **Art. No. 0899 800 901**

3 Removing slight dirt

Initial situation: slightly dirty metal sheet



- Spray stainless steel care spray onto the dry surface, polish with a **textile cloth**



Final result



Products

- Stainless steel care spray, **Art. No. 0893 121**
- Textile cloth, **Art. No. 0899 800 901**

4 Cleaning a dirty tube

Initial situation: Dirty tube



- **The stainless steel cleaning cloth** has two different sides:
 - The coarse side for removing deposits and dirt
 - The soft side for cleaning and polishing only
- For a high sheen rub with a clean, dry cloth, e.g. textile cloth

Products

- Stainless steel cleaning cloth, **Art. No. 0893 121 30**

Wiper 200 blue

Art. 0899 900 400

Specifications:

- layers: 2
- sheet width: 350 mm / sheet length: 380 mm
- number of sheets: 1'000
- reel length: 380m
- material: 100% recycling
- embossing: yes
- weight: 40 g/m²
- colour: blue
- water absorption capacity: 172 g/m² (according to test method STM2401)
- tear resistance, dry, cross direction: 240 (according to test method STM5552)
- tear resistance, dry, machine direction: 390 (according to test method STM5552)
- tear resistance, wet, cross direction: 45 (according to test method STM5587)



PERFECT METAL SURFACE SPRAYS



Areas of use:

For optical improvement, repair and protection against corrosion of metallic surfaces.

Notes:

The products Zinc Spray Perfect and Zinc Spray Light Perfect contain zinc, and therefore offer optimum, active cathodic protection against corrosion. If the surface is damaged, the zinc coating sacrifices itself (sacrificial anode) and therefore protects the metal against rust. The remaining products offer protection of the entire surface treated against rust.

If the surface is damaged, the metal is not protected further.

Not suitable as adhesive base for PU, MS-polymer and hybrid sealing compounds.

Product Designation	Color	Contents in ml	Art. No.	P. Qty.
Zinc Spray Perfect		400	0893 114 113	1/12
Zinc Spray Light Perfect		400	0893 114 114	1/12
Aluminum Spray Matt Perfect		400	0893 114 115	1/12
Stainless Steel Spray Perfect		400	0893 114 116	1/12
Brass Spray Perfect		400	0893 114 117	1/12
Copper Spray Perfect		400	0893 114 118	1/12
Aluminum Silver Spray High-Gloss Perfect		400	0893 114 119	1/12

Outstanding long-time protection and optimum metal surface appearance.

High layer thickness in 1st spraying pass.

- Very safe due to optimal protection against weathering.
- Minimal time required, as only one work step necessary.
- Covers well.

For variable use thanks to adjustable spray head.

- Large-area and minor repairs can be carried out quickly and safely with the variable spray head.

High resistance to running.

High abrasion resistance.

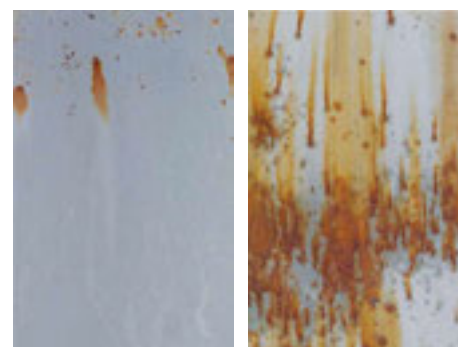
Additional advantages of zinc spray and zinc spray light:

Tested corrosion protection according to German DIN.

- Zinc Spray Light Perfect 250 hours.
Zinc Spray Perfect: 500 hours.
Tested by the TÜV Rheinland Group.
- Tested according to DIN EN ISO 1461.

Optimal for spot welding.

Corrosion protection after 250 hours of salt spray test according to DIN 50021 SS



Zinc Spray Light Perfect Competitive product

Additional articles:

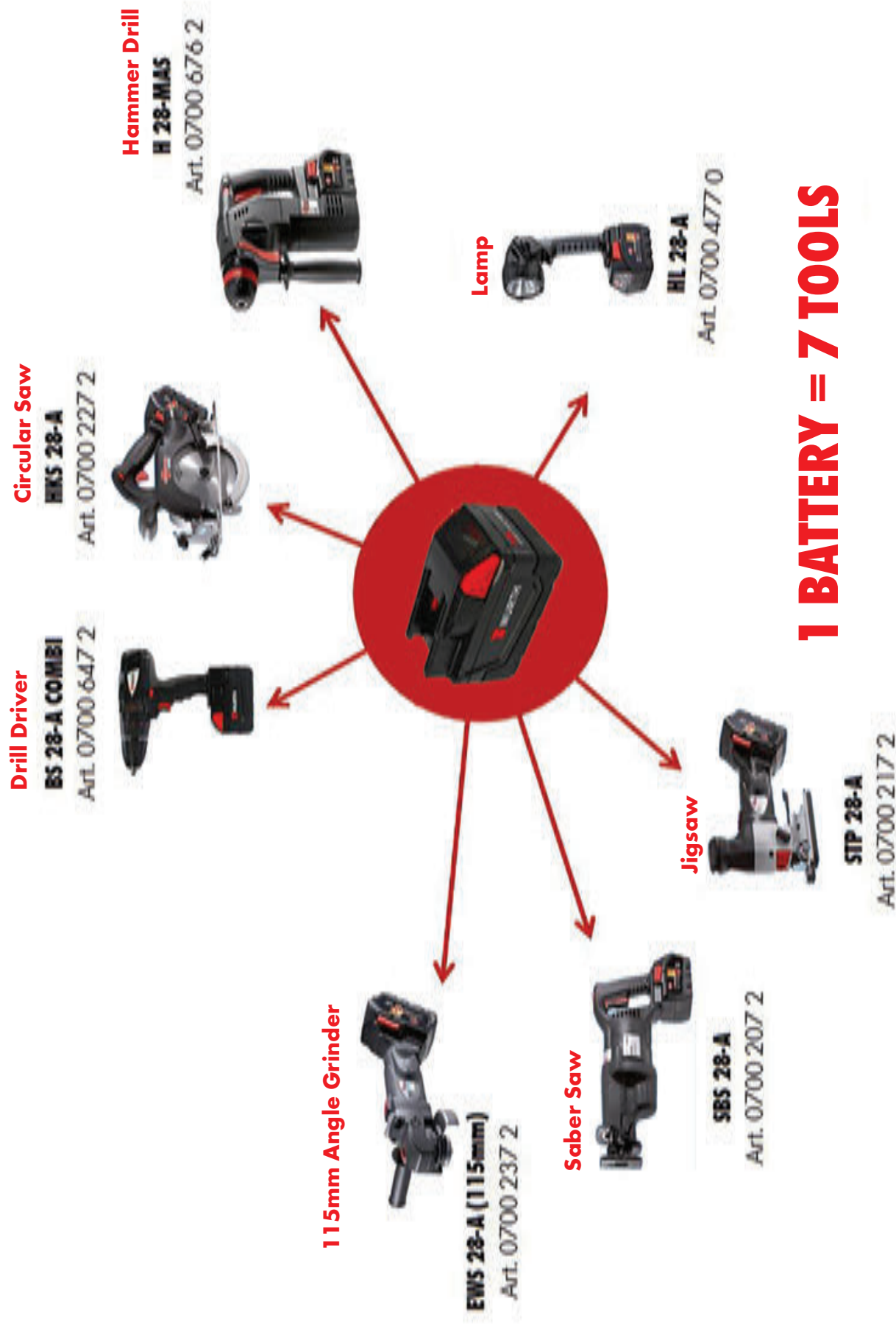
Acetone Cleaner

Art. No. 0893 460 P.Qty 1

Spare spray head „Variator“

Art. No. 0891 098 P.Qty 1

WÜRTH RANGE 28 V CORDLESS TOOL



1 BATTERY = 7 TOOLS



10.8 V System Products



**WB 10-A Battery-Powered
Angle Screwdriver**

Art. No. 0700 653 2

P. Qty. 1



**S 10-A Power Battery-
Powered Screwdriver**

Art. No. 0700 662 2

P. Qty. 1



**EMS 10-A Battery-
Powered Driver Drill**

Art. No. 0700 653 2

P. Qty. 1



Battery

LI 10.8 V/1.3 Ah

Art. No. 0700 996 213

P. Qty. 1



**EB 10-A Battery-Powered
Sheet Metal Shears**

Art. No. 0700 272 2

P. Qty. 1



**EMS 10-A Battery-
Powered Multi-Cutter**

Art. No. 0700 282 2

P. Qty. 1



master

1/2" SOCKET WRENCH ASSORTMENT



WÜRTH lever changeover ratchet



reddot design award
honourable mention 2011



With lever changeover

High-quality, extensive 1/2" assortment for the most exacting function and durability requirements.

Hard foam with clamping effect, Art. No. 0955 012 24

Metal box 405 x 160 x 50 mm, size 3, Art. No. 0955 715 3

Contents: 24 pieces

1 lever changeover ratchet, 1 angle extension 53 mm

1 extension 125 mm, 1 extension 250 mm

1 cardan joint

19 socket wrench inserts a/f:

10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 26; 27; 28; 30; 32

Art. No. 0965 012 24

P. Qty. 1

1/4" + 1/2" SOCKET WRENCH ASSORTMENT



WÜRTH lever changeover ratchet



reddot design award
honourable mention 2011



With lever changeover

Extensive combined 1/4" und 1/2" assortment for a very broad range of applications

Hard foam with clamping effect, Art. No. 0955 090 59

Metal box 350 x 260 x 55 mm, size 4, Art. No. 0955 715 4

Contents: 59 pieces

1/4":

1 lever changeover ratchet, 1 angle extension 25 mm

1 extension 150 mm, 1 flexible extension 150 mm

1 cardan joint, 1 screwdriver handle 1/4"

1 Adapter with quick-change chuck

12 socket wrench inserts a/f:

4; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13; 14

15 Bits:

PH 1, PH 2, PH 3; hexagon socket: 3, 4, 5, 6

TX 10, 15, 20, 25, 27, 30, 40; slot 0.8 x 5.5

1/2":

1 lever changeover ratchet, 1 angle extension 53 mm

1 extension 125 mm, 1 extension 250 mm

1 cardan joint

19 socket wrench inserts, a/f:

10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 26; 27; 28; 30; 32

Art. No. 0965 090 59

P. Qty. 1



With a 5 % cobalt share, this ground twist drill according to DIN 338 is especially suitable for stainless steels and alloyed steels up to 1,200 N/mm². Center-punching is eliminated due to the cone envelope with crosswise grinding. Available with a diameter of 1 to 20 mm. Both for hand drills and for stable stationary machines.

HSCO Twist Drill Cassette **Especially for stainless steel**

Content: Dia. 1.0 – 10.0 x 0.5 mm

Art. No. 0626 01

P. Qty. 1



HSS Core Drill Bit Assortment

Especially suited for overlapping boreholes and drilling on curved surfaces and pipes

Content:

1 each 12, 14, 16, 18, 20 and 22 mm dia.

1 ejector pin

Art. No. 0630 930

P. Qty. 1

ACCESSORIES:

Holder,
(Morse taper 2 and 3)

Art. No. 0630 930

P. Qty. 1

Ejector pin for core drill

Art. No. 0630 930 001

P. Qty. 1





HSS-E Machine Taps

Green ring

For stainless steel, alloyed tool steels, rust-resistant and acid-resistant steels

Cassette contents:

1 x screw tap M3, M4, M5, M6, M8, M10, M12 and core hole drill

Through-hole: **Art. No. 0655 1**

P. Qty. 1

Pocket hole: **Art. No. 0655 01**

P. Qty. 1



HSS-E Premium Machine Taps

Black-green ring

Specially for stainless steel, alloyed tool steels, rust-resistant and acid-resistant steels.

Optimized TiN (titanium-nitride) coating for up to three times the service life compared with similar uncoated types.

Advantages:

- Coating tailored precisely to the respective applications in order to increase the service life and cutting speed, and to reduce the torque via surface smoothing.
- Optimized and unique groove and cutting geometry with improved groove surface for low-friction chip removal
- Extended range of applications
- With additional black color ring as an unmistakable recognition feature

Cassette contents:

1 x M3, M4, M5, M6, M8, M10, M12 screw tap and core drill

Through-hole: **Art. No. 0655 100 001**

P. Qty. 1

Pocket hole: **Art. No. 0655 010 001**

P. Qty. 1





Twist Stepped Drill Bit TiCN

Extended drilling stage: 12 mm

Extended drilling stage: 18 mm

Fully galvanized materials; for drilling holes in steel and stainless-steel plates, non-ferrous metals and plastics

Diameter: 6.0 - 18.0 mm

Art. No. 0694 323 618

P. Qty. 1



HSS Stepped Twist Drill Cassette

Contents:

1 x 4-12, 4-20, 4-30 mm dia. drill bit

Art. No 0694 122 01

P. Qty. 1



TiAlN Stepped Twist Drill Cassette

Content:

1 x 4-12, 4-20, 4-30 mm dia. drill bit

Art. No 0694 123 01

P. Qty. 1



HSS Conical One-Lip Bit Cassette

Content: 3 drill bits for the range: 3-30.5 mm

Art. No 0694 024 01

P. Qty. 1

HSS Conical One-Lip Bit Cassette, Titanium Nitride

Content: 3 drill bits for the range: 3-30.5 mm

Art. No 0694 025 01

P. Qty. 1



HSS-E Green-Ring Conical Countersinks Cassette

Contents:

1 x countersink

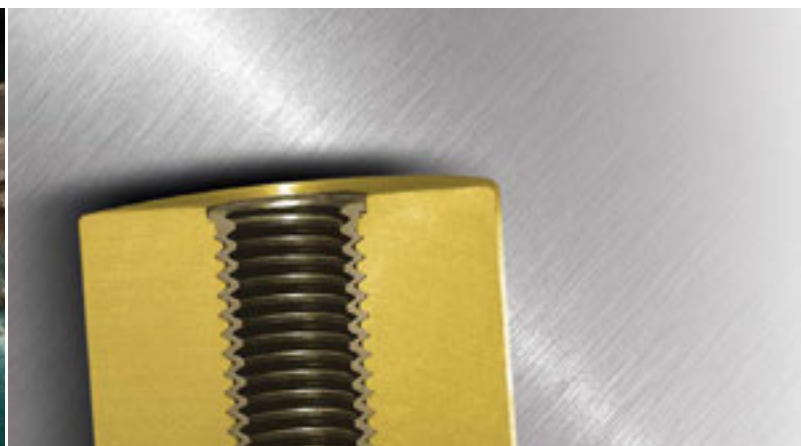
6.3 - 8.3 - 10.4.

12.4 - 16.5 - 20.5 mm dia.

Art. No 0694 019 01

P. Qty. 1





Carbide Milling Tip Assortment



Content:

10 pc. with
6 mm shank dia.
Head dia. 6, 10, 13 mm.

Art. No. 0616 100

P. Qty. 1

HW flat-cut and MBS saws are delivered complete with mounting shank and center drill

HW Hole Saws, Flat-Cut

Art. No. 0630 130 ...

P. Qty. 1



MBS HW Cylinder Saws Saw

Art. No. 0630 120 ...

P. Qty. 1



Thread-Cutting

The TIME-SERT® system is based on a solid steel sleeve machined from a solid material. The thin-walled sleeve is pressed together with the workpiece, making TIME-SERT® suitable for high continuous loads and for frequent screwing in and out.

The available sleeves can be used for metric ISO standard, fine and inch threads. TIME-SERT® can be used universally, e.g. in aluminum, brass, steel and cast materials.

TIME-SERT® is also available in certain dimensions in stainless steel.

Your advantage

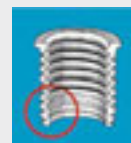
Food grade even in critical areas and for extremely high loads.



Sleeve Refill Packs

TIME-SERT

Thread dia. x pitch x length in mm	Art. No. A2	P. Qty.
M6 x 1.0 x 9.4 M6 x 1.0 x 12.0	0663 06 94 0663 06 120	25
150 x 1.25 x 11.7 150 x 1.25 x 16.2	0663 081 211 0663 081 216	25
M10 x 1.50 x 14.0 M10 x 1.50 x 20.0	0663 011 514 0663 011 520	25





Speed Plus Cutoff Wheel Green for stainless steel

Dia. 115 x 1.0 mm, 13,300 max. rpm

Art. No. 0664 131 150

P. Qty. 25

Dia. 125 x 1.0 mm, 12,200 max. rpm

Art. No. 0664 131 250

P. Qty. 25

Also available in additional dimensions and designs.



Slotted See-Through Disk

This zirconium-corundum cloth plate with see-through segments achieves an incredibly cool and uniform grinding pattern thanks to fan effect. Curved design in 115 and 125 mm dia., K 40, 60 and 80.

Art. No. 0578 81 ...

P. Qty. 10



Flexible Ceramic-Grain Grinding Wheel

Thin, lightweight and flexible wheel.

Up to 50 % less vibration.



Speed Roughing Wheel

With patented multi-layer structure for high material removal with simultaneous long service life.

- 115 mm + 125 mm + 180 mm dia.
- No fraying
- High grind-off of wheel with low application of force.
- Cooler and cleaner grinding

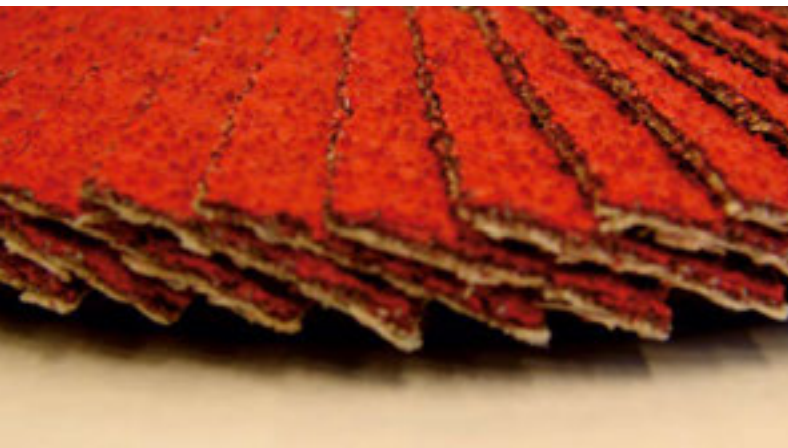
Art. No. 0664 181 ...

Also available in additional dimensions and designs.

P. Qty. 10/25



Dia. d x Thickness in mm	Drilled hole in mm	max. rpm	Grain	Art. No.	P. Qty.
115 x 3.0	22.23	13,300	36	0665 181 153	20
125 x 3.0		12,200	36	0665 181 253	
			80	0665 181 258	
Support plate suitable for 115 and 125 mm dia. disks				0665 180 001	5



Segmented Grinding Disks (Edge Pro)

Blue/green longlife for steel and stainless steel

Segmented grinding disk with new, patented segment shape and arrangement. Extremely long service life coupled with very high degree of material removal.

- Ideal for processing of steel, stainless steel and aluminum

High-performance grinding cloth (zirconium-corundum with grinding-active topcoat):

- Extremely long service life
- Cool sanding
- Very high degree of material removal
- No material discoloration

Art. No. 0578 480 5..

P. Qty. 10



Segmented Grinding Disks Longlife Green for Stainless Steel (Edge Pro)

Segmented grinding disk with specially encased, grinding-active ceramic grain specifically designed for stainless steel and high-alloy steels

- Ideal for the processing of stainless steel, high-alloy steels, nickel-based alloys and titanium alloys

High-performance grinding cloth (zirconium-corundum with grinding-active topcoat):

- Extremely long service life
- No material discoloration
- Very high degree of material removal
- Self-sharpening
- Very cool grinding

Art. No. 0579 430 3..

P. Qty. 10/100



Segmented Grinding Disks Speed Green for Stainless Steel (Surface pro)

Segmented grinding disk with grinding-active multi-bonding specifically designed for stainless steel and high-alloy steels

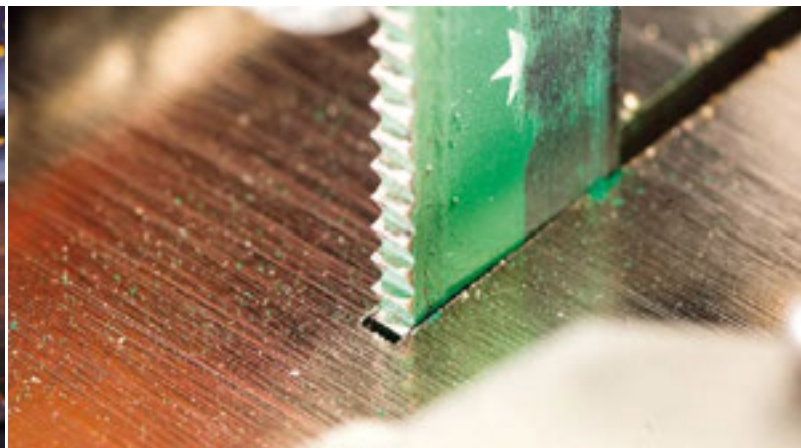
High-performance grinding cloth (zirconium-corundum with grinding-active topcoat):

- Very cool grinding
- No material discoloration

Art. No. 0578 930 3..

P. Qty. 10





Abrasive Cloth Sheets

Highly flexible hand abrasive cloth
 for hand sanding metal

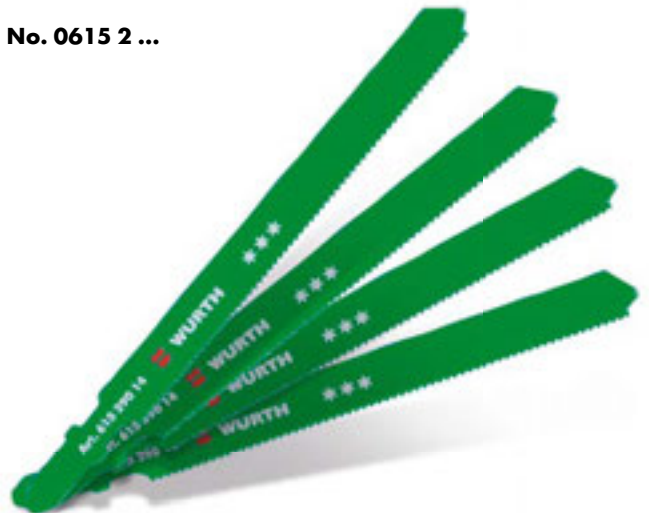
Art. No. 0674 0 ...



Compass Saw Blades

High-performance saw blades with ground carbide strip for high cutting capacity and long service life

Art. No. 0615 2 ...



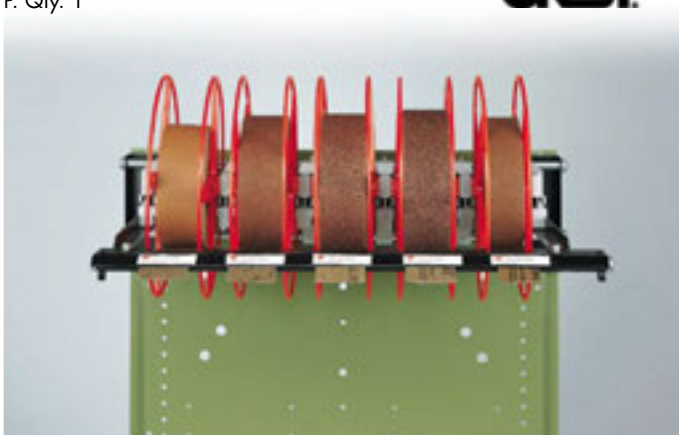
ORSY® 10 Roll-Off System for Abrasive Cloth

Fitted with abrasive cloth rolls, choice of 30, 40, 50
 or 115 mm width

Art. No. 0674 800 ...

P. Qty. 1

ORSY

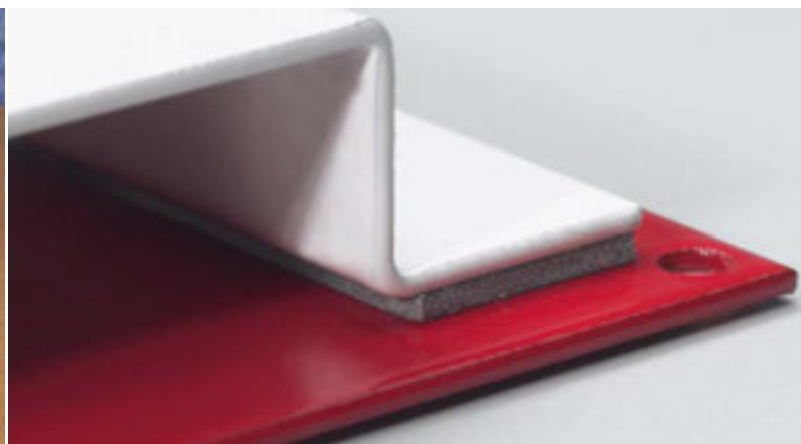


Saber Saw Blades

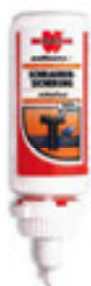
High-performance saw blades with ground carbide strip for high cutting capacity and long service life

Art. No. 0615 91 ...





- Always on hand
- Always immediately suitable for application
- One hand always free
- Dosing neck always free
- Can always be completely emptied
- Always economical to use



Screw Lock

Medium-strength

Content in g	Art. No.	P. Qty.
25	0893 243 025	1
50	0893 243 050	
250	0893 243 250	



Screw Lock

High-strength

Content in g	Art. No.	P. Qty.
25	0893 270 025	1
50	0893 270 050	
250	0893 270 250	



Pipe Seal with PTFE

Low-strength

Content in g	Art. No.	P. Qty.
50	0893 511 050	1
250	0893 511 250	



Super Fast Glue

Super fast

For the adhesion of metal, plastic and rubber parts with and to each other. Bonds virtually any materials in seconds

Contents in g	Art. No.	P. Qty.
5	0893 090 0	1/25
20	0893 09	1/100
30	0893 090 030	1/16
50	0893 090	1

ESK-48 Epoxy Resin Fast Adhesive

Solvent-free two-component adhesive. Adhesive bonding of stainless-steel sheets to each other, repairs of broken-off plastic and metal parts, manufacturing of PCBs etc.



Designation	Content in ml	Art. No.	P. Qty.
ESK-48 Adhesive Double Cartridge	50	0893 480	3
Positive Mixer ESK-48		0891 481	3
Gun for ESK-48 Double Cartridge		0891 893 485	1

Gluing instead of welding, riveting or drilling.



Power Mounting Tape

Adhesive strength up to 17 kg/running meter and 25 mm width. Double-sided adhesive tape. Roll length 10 m. Ideal for use both indoors and outdoors.

Roll width in mm	Tape thickness in mm	Color	Art. No.	P. Qty.
12	1.2	Gray	0894 909 001	1
19	1.2		0894 909 002	
25	1.2		0894 909 003	
19	1.0	Transparent	0894 909 004	
25	1.0		0894 909 005	



Hexagon bolts, nuts, sheet-metal screws, metric and inch-thread screws, threaded rods, washers, locking elements, rivets, machine elements, cover caps, sealing elements, wood screws, safety screws, etc.



ZEBRA® PIAS®

- Faster than any twist drill – reduces assembly costs by at least 50 %
- Drilling, threading, screwing-in – all in one step
- Made of stainless steel A2
- Only for installing in aluminum

1 Tallow-drop head with **AW-Antrieb**
Art. No. 0206 1 ...

2 Countersunk head with **AW-Antrieb**
Art. No. 0205 8 ...

3 Raised countersunk head with **AW-Antrieb**
Flat model
Art. No. 0205 1 ...



AW® drive

for optimum torque transmission with low application force

- Fast location
- Good centering
- No ejection forces
- Optimum force transfer





Ring Nuts

Similar to DIN 582, A2, A4



Thread dia. d	A2 Art. No.	P. Qty.	A4 Art. No.	P. Qty.
M 6	0388 6	50		
M 8	0388 8		0389 8	50
M 10	0388 10		0389 10	
M 12	0388 12	25	0389 12	
M 16	0388 16		0389 16	10
M 20	0388 20		0389 20	
M 24	0388 24	10	0389 24	10
M 30	–		0389 30	

Ring Bolts

Similar to DIN 580, A2, A4



Thread dia. d	A2 Art. No.	P. Qty.	A4 Art. No.	P. Qty.
M 8	0279 8	50	0280 8	50
M 10	0279 10		0280 10	
M 12	0279 12		0280 12	
M 16	0279 16	25	0280 16	25
M 20	0279 20		0280 20	
M 24	–		0280 24	10

Wing Nuts

DIN 315,
German Shape, A4



Thread dia. d	A2 Art. No.	P. Qty.	A4 Art. No.	P. Qty.
M 4	0344 004	100	0340 044	100
M 5	0344 005		0340 045	
M 6	0344 006	50	0340 046	50
M 8	0344 008		0340 048	
M 10	0344 001 0	20	0340 041 0	20
M 12	0344 001 2		0340 041 2	
M 16	0344 001 6		0340 041 6	
M 20	–		0340 042 0	

Wing Nuts

similar to DIN 314,
American shape, A2, A4



Thread dia. d	A2 Art. No.	P. Qty.	A4 Art. No.	P. Qty.
M 3			0340 033	100
M 4	0344 04	25	0340 034	
M 5	0344 05		0340 035	
M 6	0344 06		0340 036	
M 8	0344 08		0340 038	
M 10	0344 010	10	0340 031 0	50
M 12	0344 012	5	0340 031 2	
M 14	–		0340 031 4	
M 16	–		0340 031 6	20



Detent-Edge Washers

Secure screw connections
 powerfully and positively
 against loosening and
 unscrewing



	Shape M				Shape Z (d ₁ and s = Shape M)		Shape M		Shape Z	
Weight Dia. d	d ₁ in mm	d ₂ in mm	s in mm	h in mm	d ₂ in mm	h in mm	A4 1.4401 Art. No.	P. Qty.	A4 1.4401 Art. No.	P. Qty.
M 4	4.1	10.20	1.0	1.50			0404 4	100		100
M 5	5.1	12.20	1.2	1.80			0404 5			
M 6	6.1	14.20	1.4	2.20	9.9	1.6	0404 6		0404 06	
M 8	8.2	18.20	1.4	2.40	12.7	1.7	0404 8		0404 08	
M 10	10.2	22.25	1.6	2.75	16.1	2.0	0404 10		0404 010	
M 12	12.4	27.25	1.8	3.05	18.3	2.2	0404 12		0404 012	
M 14	14.4	30.25	2.4	3.50	21.4	2.9	0404 14			
M 16	16.4	32.50	2.5	3.95	24.6	3.1	0404 16		0404 016	



Fire Department Carabiners

DIN 5299 C, A2,
 (with large outside diameter)

Art. No. 0524 ...



Washers

DIN 9021 C, A2,
 (with large outside diameter)



Thread dia. in mm	d in mm	d ₁ in mm	h in mm	A2 Art. No.	P. Qty.
3	3.2	9	0.8	0419 3	100
4	4.3	12	1.0	0419 4	100/1000
5	5.3	15	1.2	0419 5	
6	6.4	18	1.6	0419 6	
7	7.4	22	2.0	0419 7	500
8	8.4	24	2.0	0419 8	100/500
10	10.5	30	2.5	0419 10	100/300
12	13.0	37	3.0	0419 12	100
16	17.0	50	3.0	0419 16	100
18	20.0	56	4.0	0419 18	50
20	22.0	60	4.0	0419 20	

Threaded Rods

with metric ISO standard thread
 according to DIN 976-1 A2, A4,
 stainless steel 1 m



Thread dia. d	A2 Art. No.	P. Qty.	A4 Art. No.	P. Qty.
M 3	0954 3	20		
M 4	0954 4	1/100	0953 4	1/100
M 5	0954 5		0953 5	
M 6	0954 6	1/50	0953 6	1/50
M 8	0954 8		0953 8	
M 10	0954 10	1/25	0953 10	1/25
M 12	0954 12		0953 12	
M 14	0954 14	1/10	0953 14	1/10
M 16	0954 16		0953 16	
M 18	0954 18		0953 18	
M 20	0954 20		0953 20	
M 22	0954 22	1/5		
M 24	0954 24		0953 24	1/5
M 27	0954 27			
M 30	0954 30	1	0953 30	1



NAIL ANCHOR W-NA/A4

35.1



Multiple attachment of non-load-bearing systems:

Cracked and uncracked concrete

W-NA (with thread)

Stainless steel A4

Proof of performance

Approvals

European Technical Approval

Multiple attachment of non-load-bearing systems in concrete



Fire resistance

Technical Report TR 020 R30 – R120



Good to know:

The nail anchor combines the advantages of an anchor bolt with simple installation, since the nail anchor is knocked into the bore hole only by the attached part. It is not necessary to apply torque subsequently.

The nail anchor may be used in reinforced or non-reinforced standard concrete from minimum strength class C12/15 to maximum C50/60.

The nail anchor W-NA/A4 is fire-tested in accordance with the ZTV tunnel fire curve in the cracked tensile zone.

1. Applications

• Multiple attachment of non-load-bearing systems:

Anchoring with European Technical Approval in cracked concrete (concrete tensile zone) and in uncracked concrete (concrete pressure zone)

- Suitable for securing: light ceiling coverings and joist constructions, pipelines, cable channels, metal profiles, perforated metal tapes, wire suspension brackets, nonius hangers, wood moldings, wood laths, squared lumber etc.
- With European Technical Approval, the anchor may be used in reinforced or non-reinforced standard concrete of a strength class of C12/15 minimum and C50/60 maximum in accordance with EN 206-1:2000-12.
- W-NA/A4 (stainless steel A4) may be used outdoors (including industrial atmosphere and near the sea) or in damp rooms

2. Advantages

- Quick and simple installation
- Pass-through mounting
- Small edge clearances and axle bases possible
- Easy setting: Just knock it in – no torque required
- No special drilling or setting tools required

3. Features

- Load-controlled expanding peg: Expansion from the application of load
- Approval: **Multiple attachment of non-load-bearing systems in concrete:** European Technical Approval ETA-11/0339
- Fire resistance: **R30, R60, R90, R120** (anchorage base concrete C20/25 up to C50/60): Technical Report TR 020 "Evaluation of Anchorage in Concrete with Regard to Fire Resistance" (contained in ETA-11/0339)

Setting instructions



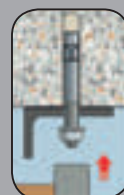
Drill the hole



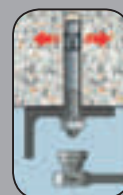
Clean the drilled hole



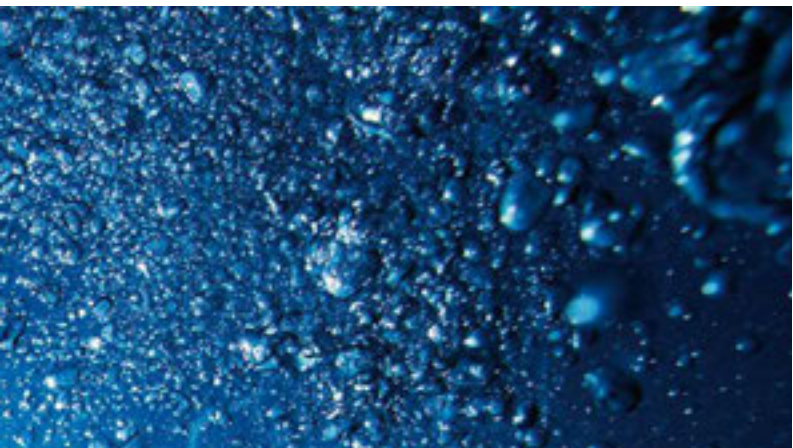
Check the position of the nut



Push the W-NA through the component and knock it in



Apply torque. Max. torque $T_{inst} \leq 4 \text{ Nm}$



Professional Water Hose

Multi-layer high-quality PVC water hose with high-strength fabric lining made of polyester

Inside dia. in inches	Inside dia. in mm	Wall thickness in mm	Bending radius in mm	Operating pressure at 23 °C in bar	Burst pressure at 23 °C in bar	Roll length in m	Art. No.	P. Qty./m
1/2	12.5	2.45	55	12	30	50	0886 001 200	50
1/2	12.5	2.45	55	12	30	30	0886 001 201	30
3/4	19.0	3.25	90	9	22	50	0886 001 210	50
3/4	19.0	3.25	90	9	22	25	0886 001 211	25
1	25.0	3.75	130	9	22	50	0886 001 220	50



PTFE Thread Sealing Tape

Application: Used to seal thread connections

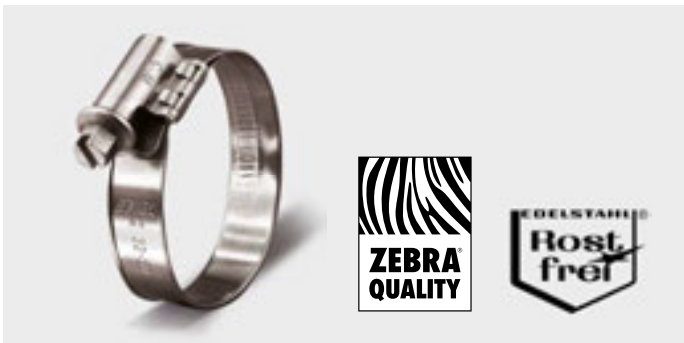
Designation	Width in mm	Length in m	Thickness in mm	Art. No.	P. Qty.
FRp PTFE Thread Sealing Tape	12	12	0.1	0985 030 160	10
GRp PTFE Thread Sealing Tape	12	12	0.1	0985 030 161	
PTFE Thread Sealing Tape	12	12	0.08	0985 030 165	



TIPP® Smartlock Pipe Clamp

Material No. 1.4571, patented

Art. No. 0543 068 ...



ZEBRA® A4 Stainless-Steel Hose Clamps

9 mm strap width, 7 mm wrench size

Art. No. 0538 0...

12 mm strap width, 7 mm wrench size

Art. No. 0538 ...



LIBRA®: The ultra-light safety goggles with a weight of just 18 g.

LIBRA® Safety Goggles

The lightest safety goggles from Würth



Design	Art. No.	P. Qty.
clear	0899 102 270	1
gray	0899 102 271	

ANDROMEDA® Full-View Goggles

Perfect protection with high level of wearing comfort. Large-volume. Optimized inside volume enables wearing over most prescription glasses.



Design	Art. No.	P. Qty.
clear	0899 102 110	1

Goggle Cleaning Cloths

Art. No. 0899 102 300

P. Qty. 100



Eye-Wash Wall Station

Eye wash with 500 ml wall station

Art. No. 0899 511 905

P. Qty. 1





x-100 Ear Plugs
Ergonomic, cone-shaped disposable ear plugs
for use in extremely noisy environments



Design	Art. No.	P. Qty./pair
Disposable Dispenser	0899 300 331	200

x-200 Ear Plugs
Thin, ergonomically-shaped disposable ear plugs
for people with narrow ear canals



Design	Art. No.	P. Qty./pair
Disposable Dispenser	0899 300 334	200

x-100 Ear Plugs
With cord

Art. No. 0899 300 332
P. Qty./Pair 100



x-300 Strap Hearing Protection

Art. No. 0899 300 339
P. Qty. 1





SNR value	L value	M value	H value
32 dB	24 dB	30 dB	32 dB

W2F/32 Encapsulated Ear Protection

- Excellently visible thanks to reflecting headband and fluorescent capsules
Increased safety at the workplace, especially for working outdoors and road construction sites, airports, etc. and at all workplaces with poor lighting conditions.
- Folding headband for space-saving storage.
- Excellent insulation properties.
- High wearing comfort thanks to
 - padded headband
 - low press-on pressure
 - broad, comfortable sealing pads.
- Simple, fast replacement of sealing pads.
- Weight 236 g.
- Tested pursuant to EN 352.

Art. No. 0899 300 353

P. Qty. 1

Hygiene Set for W2F/32 Encapsulated Ear Protection

Consisting of two sealing pads and two foam inserts.

Art. No. 0899 301 353

P. Qty. 1



SNR value	L value	M value	H value
34 dB	27 dB	32 dB	33 dB

W3/34 Encapsulated Ear Protection

- Hearing-protection capsules with outstanding insulation properties for optimum protection in very loud areas.
- Individually adjustable with telescopic bar.
- High wearing comfort thanks to
 - padded headband
 - low press-on pressure
 - broad, comfortable sealing pads
 - large earpieces that offer plenty of space for ears.
- Simple, fast replacement of sealing pads.
- Weight 302 g.
- Tested pursuant to EN 352.

Art. No. 0899 300 354

P. Qty. 1

Hygiene Set for W3/34 Encapsulated Ear Protection

Consisting of two sealing pads and two foam inserts.

Art. No. 0899 301 354

P. Qty. 1





TYVEK® Safety Suit

Disposable safety suit made of TYVEK® Pro-Tech.
Effective protection against chemicals, dirt and moisture



TYVEK® is a registered trademark of E.I. Du Pont de Nemours & Company, US

Nom- inal size	Suitable for body size in cm	Chest measurement in cm	Art. No.	P. Qty.
M	171 - 177	91 - 100	0899 020 2	5/25
L	178 - 183	101 - 108	0899 020 3	
XL	184 - 187	109 - 116	0899 020 4	
XXL	188 and larger	117 and larger	0899 020 5	

"Safety Star"

Disposable Safety Suit

Disposable protective overall with spun-bonded polypropylene interior
and laminate film-coated exterior

Applications:

Medicine, pharmaceutical industry and clean rooms



Nom- inal size	Suitable for body size in cm	Chest measurement in cm	Art. No.	P. Qty.
L	174 - 182	100 - 106	0899 021 103	5
XL	180 - 188	108 - 116	0899 021 104	
XXL	186 - 194	116 - 124	0899 021 105	

Shoe Covers

Hygienic and dirt protection shoe made of CPE
(cold pressed polyethylene)

Size	Art. No.	P. Qty./pair
universal	0899 028 1	1



Assembly glove „Tiger Flex“



Properties

- Skin friendly, seamless round knitted Nylon/Lycra® carrier fabric (15 gauge)
- Foam nitrile coating palm with additional nitrile „Tiger“ dots
- Breathable, comfortable to wear
- Tight fit ensuring excellent grip and dexterity
- Elastic cuff
- Colour texture: grey
- Colour coating: black
- Colour Tiger dots: grey

Applications

Light to medium work where good gripping and high flexibility are required. Excellently suited for assembly, workshop, mechanic's and body work. Optimum for freight forwarding, transport and storage activities.

EN standards/performance values

EN 420 + EN 388

Cat. II / Performance values 4.1.2.2

Size	Art.	PU/pair
7	0899 401 017	12
8	0899 401 018	12
9	0899 401 019	12
10	0899 401 020	12
11	0899 401 021	12

Assembly glove „Tiger Flex Cool“



Properties

- Skin friendly, seamless round knitted Nylon/Lycra® carrier fabric (13 gauge)
- Foam nitrile coating palm with additional nitrile „Tiger“ dots
- Comfortable to wear
- Tight fit ensuring excellent grip and dexterity
- Elastic cuff
- Colour texture: black
- Colour coating: black
- Colour Tiger dots: grey

Applications

Light to medium work where good gripping and high flexibility are required. Excellently suited for assembly, workshop, mechanic's and body work. Optimum for freight forwarding, transport and storage activities.

Fall version: for use in cold environments

EN standards/performance values

EN 420 + EN 388

Cat. II / Performance values 4.1.3.2

Size	Art.	PU/pair
7	0899 401 047	12
8	0899 401 048	12
9	0899 401 049	12
10	0899 401 050	12
11	0899 401 051	12

WET, CHEMICAL, CLEANING AND DISPOSABLE GLOVES

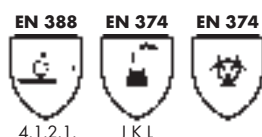
VINYL CHEMICAL AND WET SAFETY GLOVE



Fully dipped chemical and wet protection glove with vinyl coating on cotton jersey lining

Features

- Very good wet and dry grip thanks to microscopic roughing of the hand surfaces
- 100% liquid-sealed
- Jersey lining with cold and thermal insulation
- Chemical and wet protection
- Antibacterial
- Material thickness: 1.80 mm \pm 0.03 mm
- Total length: 350 mm



Areas of application

- Medium mechanical load in wet areas
- Chemical protection
- Hazardous goods transport
- Tanker drivers
- Chemical and liquid handling
- Fisheries and fish processing
- Disposal companies
- Cleaning work
- Agriculture
- Cold work

Size	Art. No.	P. Qty. /pair
10	0899 430	12

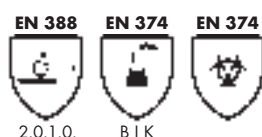
BUTYL CHEMICAL PROTECTION GLOVE



Butyl protection glove

Features

- Protection against dangerous chemicals
- Gas-tight and resistant to exhaust gases from combustion processes
- Good mechanical resistance
- With rolled edge
- Powdered
- Material thickness: 0.50 mm \pm 0.10 mm
- Total length: 350 mm



Areas of application

- Chemical industry
- Laboratory work
- Handling of extremely dangerous, toxic chemicals, such as esters, ketones, acetone, aldehydes, amines, anhydrides, potassium hydroxide, sodium hydroxide, caustic solutions, alcohol, inorganic salts, organic acids and inorganic acids up to 20%
- Not resistant to: Oils, greases, halogens and hydrocarbons

Size	Art. No.	P. Qty. /pair
8	0899 430 308	1
9	0899 430 309	1
10	0899 430 310	1

Nitrile disposable glove „Black“



Liquid-sealed disposable nitrile glove

Properties

- Nitrile protective glove / black
- Tested as food-safe
- Does not contain allergy-triggering latex proteins
- Silicone-free manufacturing process
- Powder-free
- Can be worn on both sides
- Material thickness:
Finger: 0.11 – 0.16 mm
Palm: 0.09 – 0.12 mm
Cuff: 0.06 – 0.09 mm
- Total length: 240 mm

EN standards/performance values

EN 420 / Cat. I



Areas of application

- Automotive industries
- Laboratory work
- Food processing
- Pharmaceutical, chemical and electrical industries
- House painting work
- Painting and polishing work
- Cleaning and maintenance work

Size	Art.	PU/pair
M	0899 470 370	100
L	0899 470 371	100
XL	0899 470 372	100

Nitrile disposable glove



Liquid-sealed disposable nitrile glove

Properties

- Nitrile protective glove / 5 mil
- Tested as food-safe
- Does not contain allergy-triggering latex proteins
- Silicone-free manufacturing process
- Powder-free
- Can be worn on both sides
- Material thickness:
Finger: min. 0.13 mm
Palm: min. 0.09 mm
Cuff: min. 0.05 mm
- Total length: 240 mm



Areas of application

- Laboratory work
- Food processing
- Pharmaceutical, chemical and electrical industries
- House painting work
- Painting and polishing work
- Cleaning and maintenance work

Size	Art.	PU/pair
S	0899 470 340	100
M	0899 470 341	100
L	0899 470 342	100
XL	0899 470 343	100

DISPOSABLE NITRILE GLOVE, EXTRA STRONG



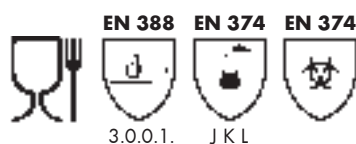
Chemical protection glove according to EN 374

Features

- Nitrile protective glove
- Does not contain allergy-triggering latex proteins
- Powder-free
- Silicone-free manufacturing process
- Good grip thanks to roughened surface
- Tested as food-safe
- Material thickness: 0.20 mm ± 0.01 mm
- Total length: 300 mm

Standards

Category III



Areas of use

- Chemical industry
- Food processing industry and catering
- Electronics and computer industry
- Laboratory and research
- Cleaning and maintenance
- Product protection
- Printing industry

Size	Art. No.	P. Qty.
8	0899 470 408	50
9	0899 470 409	
10	0899 470 410	
11	0899 470 411	

"HIGH POWER" ALKALINE BATTERY



Unbeatable battery power for energy-intensive jobs.

Flexible uses

High capacity combined with a long service life.

Efficient

Particularly recommended for devices with a high power requirement.

Economical

Longer usage times and constant energy output at the highest level.

Good shelf life

Very low self-discharge with a shelf life of 5 years.

Decorative

Supplied in a practical packaging concept for additional use as a counter display, including sales tips on the back.

Designation	Voltage (V)	Art. No.	P. Qty.
Alkaline AAA / Micro / LR03	1.5	0827 111	4/60*
Alkaline AA / Mignon / LR6		0827 112	4/40*
Alkaline C / Baby / LR14		0827 113	2/10*
Alkaline D / Mono / LR20		0827 114	2/10*
Alkaline / E Block / 6LR61	9	0827 115	1/20*

* Packed in a practical tray.



FOOD & BEVERAGE INDUSTRY