

AUTOMOTIVE PRODUCTS

WUERTH INDONESIA

BODY SHOP PRODUCTS

RUBBING COMPOUND

A grinding paste for all modern paintwork.



Application:

The grinding paste is particularly suitable for mechanical use, but can also be used manually.

With Polishing Machine:

Before use, first remove any unevenness in the paintwork, such as dust or paint runs etc. Then apply the grinding paste to the surface requiring treatment.

Spread the paste over the surface using a polishing disk or polishing machine. If the surface becomes dry during treatment, spray water onto the paintwork. Polish at a speed of 1500 - 1800 rpm at average pressure.

When drying the polished surface, reduce the pressure until the grinding paste has been completely polished away and the scratches removed.

Finally, wipe the surface with a soft cleaning cloth to bring it to a shine.

Manual:

Apply the grinding paste using a clean and dry cleaning cloth and polish the surface until scratches and other contamination have been removed.

Polish using a new, dry cleaning cloth.

If necessary, spray the surface requiring treatment or the cleaning cloth with water and continue polishing until you achieve the optimum result.

Properties:

- For removing surface scratches in painted surfaces.
- Suitable for removing scratches caused by car washes, oxidation.
- Suitable for areas in which sandpaper should not or cannot be used.
- Protect against frost.
- Does not contain silicone or ammonia.
- Do not apply in direct sunlight.

Product /Content	Art.
Rubbing Compound 1L	1083012100
Rubbing Comp. Medium 250ml	1083010111
Rubbing Comp. Strong 250ml	1083011111

NOTE:

During the polishing process using the machine, please keep the surface wet with spray-pumped water.

Instructions

Usage	5gr /panel
Application time	5 - 10 min. /panel

Technical Data

Form	Thick
Colour	Green
Scent	Vanilla
Density at 20° C	~ 0.97 g/cm ³
pH at 20° C	8

SUPER POLISH



Removes dirt, stains, restores dull paint colors, and cleans up to the innermost part.

- Fixed minor scratches and swirl marks.
- Provide a reliable protective coating.
- For aesthetic improvement on all types of vehicle paint.

Art. No.	Content
10893 119 011	250 ml
10893 119 017	1 L
10893 119 018	5 L

Application:

Shake well before use.

Apply the Super Polish on the surface of the car paint with a soft cloth and let it dry within few minutes. After drying, polish using a dry and smooth cloth .

A careful and periodic polishing process can provide the perfect luster on the surface of the car. For application with a polishing machine, use a soft sponge with speed around 1000-1500 rpm.

NOTE:

During the polishing process using the machine, please keep the surface wet with spray-pumped water.

ENAMEL POLISH



Cleanse, polish, and wax with a single product. Clean the tar spots, dirt, stains and remove the layer of dirt (road film).

- Fixed minor scratches on vehicle paint
- Removes dirt, stains, dull colors, and so on
- Make your vehicle surface shiny and bright
- Form a protective coating that is elastic and durable
- Restores the aesthetics of all types of paints

Art. No.	Content
10893 125 011	250 ml
10893 125 017	1 L
10893 125 018	5 L

Application:

Shake well before use.

Apply the Enamel Polish on the surface of the car paint with a soft cloth. After drying, polish using a dry and smooth cloth. For application with a polishing machine, use a soft sponge with low speed.

HIGH GLOSS FINISHING POLISH



Give a high shine on all types of car paint in a short time and easily.

Does not cause scratches

- Do not leave stains.

Can be used on new or old paint.

- Can be used on any kind of paint coating and chrome coated parts.

Art. No.	Isi /Content
10893 598 011	250 ml

Application:

Shake well before use.

Apply the High Gloss Finishing Polish on the surface of the car paint with a soft cloth and let it dry within few minutes. After drying, polish using a dry and smooth cloth . A careful and periodic polishing process can provide the perfect luster on the surface of the car. For application with a polishing machine, use a soft sponge with low speed.

P10 FAST GRINDING POLISH PLUS



Pad recommendation:
"Green" or "Lambskin" polishing pad

Application:

Shake bottle well before using. Moisten the surface of the selected polishing pad evenly with the paste and apply a small quantity on the surface to be polished. Lay the pad evenly on the area and start the machine.

Contents	Art.	P /Qty
250 ml	0893 150 012	15
1 kg	0893 150 010	6
5kg	0893 150 015	1

Polish the area with a certain pressure until grinding traces or paint imperfections have been removed. Remove residual polish with a microfiber cloth. Remove any remaining streaks with P30 Anti-Hologram Polish Plus.

Highly abrasive high-gloss polish for quickly removal of surface defects infresh repair and hardened top-coat paints.

Innovative powdered property of aluminum oxide.

- Extremely high surface removal rate and unmatched gloss level.
- Sanding grooves **can be effortlessly removed from a grain of P1500.**

Thick consistency.

- No spraying of the polish.
- Efficient in consumption.
- Minimal dust creation.
- No laborious recleaning of adjacent areas.

Can be applied manually and by machine.

For conventional and scratch proof paint types.

Suitable for use on used and new paint surfaces. Silicone-free.

P20 HIGH-GLOSS POLISH PLUS



Pad recommendation:
"Blue" or "Lambskin" polishing pad

Application:

Shake bottle well before using. Moisten the surface of the selected polishing pad evenly with the paste and apply a small quantity on the surface to be polished. Lay the pad evenly on the area and start the machine.

Contents	Art.	P /Qty
250 ml	0893 150 012	15
1 kg	0893 150 010	6
5kg	0893 150 015	1

Polish the area with a certain pressure until grinding traces or paint imperfections have been removed. Remove residual polish with a microfiber cloth. Remove any remaining streaks with P30 Anti-Hologram Polish Plus.

Medium-abrasive high-gloss polish for efficient paint care.

Specially matched powdered property of aluminum oxide.

- Moderate surface removal rate and extremely high gloss level.
- Sanding grooves **can be effortlessly removed from a grain of P2000.**

Thick consistency.

- No spraying of the polish.
- Efficient in consumption.
- Minimal dust creation.
- No laborious recleaning of adjacent areas.

Can be applied manually and by machine.

For conventional and scratch proof paint types.

Suitable for use on used and new paint surfaces. Silicone-free.

Additional items:

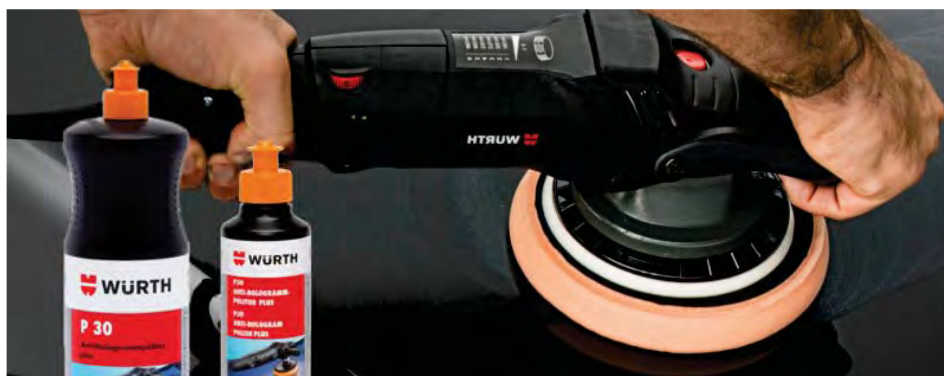
Microfiber Cloth

Art. No. 0899 900 131 P. Qty. 3

Polishing Sponges

Art. No. 0585 ... P. Qty. 2

P30 ANTI-HOLOGRAM POLISH PLUS



Pad recommendation:

"Orange" or "Lambskin" polishing pad

Application:

Shake bottle well before using. Moisten the surface of the selected polishing pad evenly with the paste and apply a small quantity on the surface

Contents	Art.	P /Qty
250 ml	0893 150 032	15
1 kg	0893 150 030	6

to be polished. Lay the polishing pad evenly on the area and start the machine. Polish the area with a certain pressure until grinding traces or paint imperfections have been removed. Remove residual polish with a microfiber cloth.

High-gloss finish paste for lasting margolo dna skaerts fo lavomer ondark vehicle paints.

Unique powdered property of aluminum oxide

- Fine removal with simultaneous unique mirror gloss.
- Sanding grooves can be effortlessly removed **from a grain of P3000.**

Thick consistency.

- No spraying of the polish.
- Efficient in consumption.
- Minimal dust creation.

Can be applied manually and by machine.

For conventional and scratchproof paint types.

Suitable for use on used and new paint surfaces.

Silicone-free.

P55 COMBINATION POLISH PLUS



Pad recommendation:

"Blue", "Lambskin" polishing pad microfiber cloth.

Application:

Shake bottle well before using. Pretreat vehicle with primary vehicle cleaner.

Manual: Apply polish evenly to paint surface with a soft polishing cloth or polishing sponge using circular movements and then polish. Remove residual polish with a microfiber cloth.

Contents	Art.	P /Qty
250 ml	0893 150 056	15
1 kg	0893 150 055	6
5kg	0893 150 058	1

Mechanical: Moisten the surface of the selected polishing pad evenly with the paste and apply a small quantity on the surface to be polished. Lay the polishing pad evenly on the area and start the machine. Polish the area with a certain pressure until grinding traces or paint imperfections have been removed. Remove residual polish with a microfiber cloth.

Preparation and sealing of the paint in one work step.

1-step polish (2 in 1).

- Enables preparation and sealing of the paint in one work step.
- Developed especially for use on old and new paint.
- Excellent removal and intensive deep gloss.
- Excellently suited for detailing used vehicles.

Innovative formula.

- Car wash scratches and paint imperfections can be effortlessly removed.
- Forms lasting protection against environmental influences.

Can be applied manually and by machine(exception: matt paints).

For conventional and scratch proof paint types.

Free of volatile silicones.

APPLICATION OVERVIEW OF PAINT FINISH / POLISHES

	P10	P20	P30	P55	PAINT SEALANT PINK
Product	Quick-Grinding Paste Plus Art. No. 0893 150 010	High-Gloss Polish Plus Art. No. 0893 150 020/025	Anti-Hologram Polish Plus Art. No. 0893 150 030	Combination Polish Plus Art. No. 0893 150 055/058	Paint Sealant Pink Art. No. 0893 011 01/05
Area of application	Painters Detailers	Painters Detailers	Painters Detailers	Detailers	Detailers/End customers
Area of use	Very abrasive high-shine polish for the quick removal of imperfections in fresh repair and hardened finishing paints and for polishing out stubborn signs of use on used paints. Sanding marks from a grain of P1500 can be removed effortlessly.	Medium abrasive high-shine polish for efficient paint preparation, removal of signs of sanding and scratches from used paints and for the removal of imperfections on hardened repair finishing paints. Sanding marks from a grain of P2000 can be removed effortlessly.	Anti-hologram high-shine polish for lasting elimination of streaks and holograms on dark vehicle paints and for efficient removal of fine signs of sanding or slight paint irritations on used and new car paints. Sanding marks from a grain of P3000 can be removed effortlessly. Especially suitable as paint finishing paste if the paint was treated with coarser pastes beforehand.	P55 Combination Polish was developed especially for use on old and new paints. P55 enables preparation and sealing of the paint in a single step. The polish is characterized by its excellent removal rate and high shine when buffed.	Synthetic wax and durable polymers ensure lasting protection and a brilliant shine. Wax particles settle into the finest textures of the paint surface, leaving behind a mirror-smooth surface with brilliant color depth. Can also be polished off of hot surfaces without leaving residue. Free of volatile silicones.
Application	Dust inclusions, sanding marks, orange peeling, paint irritations Shake well before using. Moisten the surfaces of the selected polishing wheel evenly with the paste and apply a small quantity on the surface to be polished. Lay the polishing pad evenly on the area and start the machine. Using the appropriate amount of pressure and a speed of 1,500 - 2,000 rpm, process the surface until the paint irritations etc. have been removed. Proceed in sections!	Signs of sanding and scratches, detailing used vehicles Shake well before using. Moisten the surfaces of the selected polishing wheel evenly with the paste and apply a small quantity on the surface to be polished. Lay the polishing pad evenly on the area and start the machine. Using the appropriate amount of pressure and a speed of 1,500 - 2,000 rpm, process the surface until the paint irritations etc. have been removed. Proceed in sections!	Elimination of holograms, carwash scratches Shake well before using. Moisten the surfaces of the selected polishing wheel evenly with the paste and apply a small quantity on the surface to be polished. Lay the polishing pad evenly on the area and start the machine. Using the appropriate amount of pressure and a speed of 1,500 - 2,000 rpm, process the surface until the paint irritations etc. have been removed. Proceed in sections!	Signs of sanding and scratches Restoration of used vehicles Moisten the surface of the selected polishing wheel evenly with the paste and apply a small quantity on the surface to be polished. Lay the polishing pad evenly on the area and start the machine. Using the appropriate amount of pressure and a speed of 1,500 - 2,000 rpm, process the surface until the paint irritations etc. have been removed. Proceed in sections!	Paint sealing and protection Clean paint thoroughly and eliminate scratches and paint irritations using a polish. Apply Paint Sealant Pink thinly with a damp pressed sponge, allow it to dry slightly and then wipe off with a micro fiber cloth.
Finish	Remove polish residue with a micro fiber cloth. Remove any remaining streaks with P30 Anti-Hologram Polish Plus.	Remove polish residue with a micro fiber cloth.	Remove polish residue with a micro fiber cloth.	Remove polish residue with a micro fiber cloth.	Remove polish residue with a micro fiber cloth.
Processing	Mechanical	Mechanical	Manual/Mechanical	Manual/Mechanical	Manual
Suitable polishing pad		  		 	

PAINT SEALANT PINK



Contents	Art.	P /Qty
250 ml	0893 011 250	15
1 kg	0893 011 01	6
5kg	0893 011 05	1

Areas of application:

For long-lasting, high-gloss sealing of all paint types.

Application:

Clean paint thoroughly. Remove scratches and irritations in the paint using a polish. Apply Paint Sealant Pink thinly with a damp pressed sponge, allow it to dry slightly and then wipe off with a microfiber cloth.

Synthetic paint sealant with nano-wax particles and UV protection.

Synthetic nano-wax particles.

- Smoothes the finest texturing in the paint.
- Glass-smooth surface and brilliant deep shine.
- Provides sustainable protection against the influences of weather, car wash scratching and other environmental influences.
- UV-resistant.

Can also be buffed on hot surfaces without residue.

Free of volatile silicones.

GLOSS SEAL



Provides lasting, reliable protection with extremely simple application.

- Resistant to weathering, salt, sunlight, cold cleaner and other influences which usually affect paint.
- Not aggressive and therefore gentle to paint.
- Achieves an extremely smooth paint surface and protection for up to 18 months.
- Silicone-free.

Application:

Vehicle must be thoroughly washed and all wax removed. Shake well before using. Apply gloss seal with a soft cloth (not too thin in order to achieve optimum protection). Allow to dry. Polish with a cloth. Vehicle can be processed in sections or at one time.










Contents in ml	Art. No.	P. Qty.
250	0893 012 6	1/24

This information is only a recommendation based on our experience. Preliminary testing required! While using the product, both the technical data sheet and the specifications of the applicable regulations are to be complied with.

POLISHING PAD



Illustration only

	Art. No.	P. Qty.	Hardness degree	Colour	Diameter
	0585 025 090	4	Extra hard	Green	90 mm
	0585 025 145	2	Extra hard	Green	145 mm
	0585 025 170	2	Extra hard	Green	170 mm
	0585 027 090	4	Hard	Blue	90 mm
	0585 027 145	2	Hard	Blue	145 mm
	0585 027 170	2	Hard	Blue	170 mm
	0585 026 090	4	Soft	Orange	90 mm
	0585 026 145	2	Soft	Orange	145 mm
	0585 026 170	2	Soft	Orange	170 mm

Application area

- Soft polishing pad (orange) for a perfect finish, for sealing or effortless removal of streaks and holograms
- Medium-hard polishing pad (blue) for efficient paint restoration and for partial removal of fine sanding grooves
- Extra-hard polishing pad (green) for maximum removal rate with minimal heat development

Polishing pads in three different abrasive grades

Maximised effect with minimised wear

Surface area significantly increased owing to surface structure (criss-cross scoring). This allows a significantly larger amount of polish to be absorbed, delivering a greater removal rate and prolonged polishing grain yield.

Open-pore foam for a consistent removal rate

Polishing pads produced from high-quality open-pore foam. Heat generated during polishing is dissipated effectively owing to porous and structured surface.

Greater flexibility on any body shape

Polishing pads suitable for any shape and curvature of vehicle owing to rounded edges, and thanks to this intelligent geometry prevent new paint faults.

Harmonious polishing results

145 mm and 170 mm diameters offer a drill hole for rapid, convenient and perfect centring.

Environmentally friendly

Polishing pad easily removed from Velcro plate thanks to edge bevel at the edge of the Velcro.

The usage instructions are recommendations based on the tests we have conducted and are based on our experience; carry out your own tests before each application. We do not assume any liability for a specific application result due to the large number of applications and storage and processing conditions. Insofar as our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee consistent quality of our products. We reserve the right to make technical changes and carry further develop products.

POLISHING PAD



Polishing cloth for large-area vehicle paint polishing and cleaning jobs.

Open-pore abrasive foam

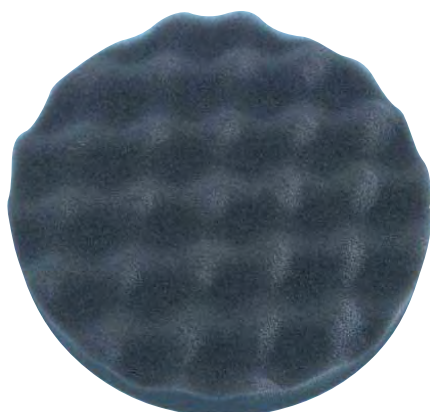
Highly suited for use with quick sanding polish and high-gloss polish in large-area polishing tasks.

Sharp-edged

Enables mechanized processing of edges and hard-to-reach places.

Version	Pad dia. in mm	Art. No.	P. Qty.
White Suitable for Support Plate Art. No. 0586 01 150	200	0585 200 30	5

WAVE POLISHING PAD



Extremely fine and soft polishing pad for the removal of micro-scratches and holograms.

- Holds polish very well.
- No spraying of polish at high speeds.
- Minimal heat development, long service life

Version	Pad dia. in mm	Art. No.	P. Qty.
Black Suitable for Support Plate Art. No. 0586 01 125	130	0585 28 130	2

PREMIUM LAMBSKIN, BLACK



Type	Pad dia. in mm	Art. No.	P. Qty.
Black Suitable for Support Plate Art. No. 0586 01 125	135	0585 135	5

NOTE:

Do not wash out with water! Simply brush out old paint and polishing agent residue with the polishing pad cleaning brush after finishing polishing work.

For the economical remedying of scratched, dull and sanded paint sections.

Lint-free results

Lambskin is highly suitable for use on dark paints.

Results of work are quickly seen

The dense skin texture ensures an optimum removal rate.

Minimal heat development, high service life

Thanks to top-quality genuine lambskin.

LAMBSKIN, WHITE



Version	Pad dia. in mm	Art. No.	P. Qty.
White Suitable for Support Plate Art. No. 0586 02 80	80	0585 23 80	5
White Suitable for Support Plate Art. No. 0586 01 125	135	0585 235	
White Suitable for Support Plate Art. No. 0586 01 150	200	0585 195	1

NOTE:

Do not wash out with water! Simply brush out old paint and polishing agent residue with the polishing pad cleaning brush after finishing polishing work.

For professional polishing work on heavily stressed and weathered paint surfaces.

Multi-purpose product

Suitable for both light and dark paint surfaces.

Very high removal rate

Thanks to the very fine skin texture.

Minimal heat development, high service life

Thanks to top-quality genuine lambskin.

Additional articles:

P10 Quick Sanding Polish Plus
Art. No. 0893 150 010 P. Qty. 1

PINK Paint Sealant
Art. No. 0893 011 01 P. Qty. 1

Pro-Duo Micro-Fiber Cloth
Art. No. 0899 900 138 P. Qty. 1

VELCRO BACKING PAD



Fig.	dia. in mm	Art. No.	P. qty.
1	80	0586 01 80	1
2	125	0586 01 125	
3	150	0586 01 150	

For securing polishing pads, lambskin etc. with Velcro mount.

Optimum results

Foam intermediate layer to provide a good feeling for the surface

Saves time

Velcro mount for a quick pad change

SOFT MANUAL POLISHING SPONGE



Art.	0585 126 130
P. qty.	1
Hardness degree	Soft
Colour	Orange
Diameter	130 mm

Hand polishing sponge pad for ergonomic painting.

Soft polishing tab with perfect ergonomic shape made from solid yet finely pored foam for manual application of all polishes.

Field of Application:

Multi-purpose, for uniform application of polishes, waxes, sealing products and cleaning products.

EXTRA SOFT MANUAL POLISHING SPONGE



Art.	0585 126 130
P. qty.	1
Hardness degree	Extra Soft
Colour	Black
Diameter	130 mm

Hand polishing sponge pad for ergonomic painting.

Extra soft polishing sponge pad with perfect ergonomic shape, made from very finely pored foam to efficiently seal paint and plastic surfaces.

Field of Application:

Universal use - for even application of polishes, waxes, sealing and cleaning products.

UNDERBODY PROTECTION



Bitumen-based coating mass, cannot be painted over, contains solvents.

With long-term protection and anti-drone effect.

Resistant to sprayed water and salt water, weak acids and basis.

Color	Contents in mL	Art. No.	P. Qty.
Black	1,000	0892 072	1/12
	500	0892 073	

Areas of application:

For repair and protection of areas out of view which do **not** need to be painted over. Highly suitable as an external anti-drone mass for wheel wells, underbodies etc., for example.

Application:

Shake can well before using. The application surface must be dry and rust-, dirt- and grease-free. Optimum spraying distance is 30 cm. Allow the product to dry between coatings in case of thicker coatings. Working pressure: 3 - 6 bar.

NOTE:

Turn can upside down and spray until valve is empty after use. Do not spray on joints, engines, transmissions and brake systems.

Additional products:

UBS Gun

Art. No. 0891 106 3

Art. No. 0891 110 640

GRAVEL THROW AND UNDERBODY PROTECTION



Color	Content in mL	Art. No.	P. Qty.
Black	500	0892 075 250	1/12
Gray	500	0892 075 350	1/12
Black	1.000	0892 075 200	1/12
Gray	1.000	0892 075 300	1/12

Areas of application:

For repair and restoration of the original texture and for protection against stone chips and corrosion in all visible areas, e.g. front and rear valances, side skirts, bumpers and chassis of cars, trucks and buses. Excellent for use as anti-drone mass for wheel wells and chassis.

NOTE:

Do not spray on joints, engines, transmissions and brake systems. Turn can upside down and spray until valve is empty after use. Cannot be mixed with thinner, water or paint. The product can be painted over within 24 hours. Only sanding and cleaning are then required before it can be painted over.

Application:

Shake well before using. The subsurface must be clean, dry and free of rust and dust. Make the first coating very thin for better adhesion and let it flash off for approx. 3 minutes. Then apply the desired coating thickness. Allow each intermediate coat to flash off.

Depending on coating thickness, can be painted over after approx. 60–120 min!

Working pressure: Max. 3 bar

Optimum spraying distance is 30 cm. The best spraying results are achieved at a processing temperature of 15 – 25°C.

Rubber-based coating mass which can be painted over, contains solvents.

Very good adhesion, quick skin formation

Scratch-resistant

Suitable for painting over

With all conventional solvent- and water-based one- and two-component top-coat paints.

Suitable for oven drying at 40°C to 60°C

Very easy sanding after through-drying

Tip for pros

- Different textures can be sprayed by changing the distance and pressure.
- Covering with a clean top-coat paint darkens the color underneath.

Additional articles:

UBS Gun

Art. No. 0891 106 3

UBS Cup Gun

Art. No. 0891 110 640

CAVITY WAX



For repairs and long-lasting protection.

Excellent creeping behavior.

Even hard-to-reach seams are effectively protected.

Water-displacing effect.

Moisture is subverted and displaced.

High heat-resistance and good flexibility in the cold.

Color	Contents in ml	Art. No.	P. Qty.
Transparent	1.000	0892 082	1/12
Transparent	500	0892 082 500	1/12

Application:

Shake can well before using.

Thinly apply cavity wax using the pressurized gun and the corresponding tube.

Apply spray directly or with the tube, depending on the area of use.

Areas of application:

For long-lasting protection of areas in vehicle body cavities prone to corrosion.

Used for subsequent treatment of existing seals and for restoring corrosion protection after an accident repair.

NOTE:

The material temperature should be +18°C to +30°C. Recommended dry layer thickness: 2-3 spray passes.

We recommend two applications for classic cars!

Ventilate cavities well after processing.

Additional products:

Tube, 600 mm
for Art. No. 0892 082 500

Art. No. 0891 081

P. Qty. 1

Pressurized Gun HRS 2

Art. No. 0891 130

P. Qty. 1

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BOND + SEAL



POLYURETHANE ADHESIVE SEALANT.

Elastic PU adhesive and sealant for a broad range of uses.

- Long skin formation time
- Can be sanded and painted over
- Approved for use with food-stuffs (ISEGA certificate)
- Non-corrosive
- Low-odour
- Free from silicones

Technical Data

Processing temperature:
+5° C to +35° C

Temperature resistance
-40° C to +90° C, up to 8 h at +120° C

Short-term resistance to ; Fuels, mineral oils, vegetable and animal fats and oils

Excellent adhesive strength on a wide range of surface materials such as metal, painted surfaces, wood, stone, concrete and plastic (polyester and hard PVC).

Highly elastic

- Bond the surface of both different materials and of the same type of material..
- Compensate expansion in different materials types.
- Absorbs noise and vibration.

Long skin formation time.

- Allows bonding and or sealing in large components and complex areas.
- Allows adjustment between component or attached surface.

Colour	Content	Art.	Qty /P
Putih	310 ml	08901001	12
Hitam	310 ml	08901003	12

APPLICATION NOZZLE



Flanged-Seam Nozzle

- For Adhesive Sealant
- With marker for cutting
- Total Length: 10.5 cm
- Colour: Grey

For metal cartridge, 300 ml or 310 ml (fine thread)

Art. No. 0891 660

P. Qty. 25

APPLICATION OF BOND+SEAL WHITE



Application of BOND + SEAL White on new panel, with Flanged Seam Nozzle.



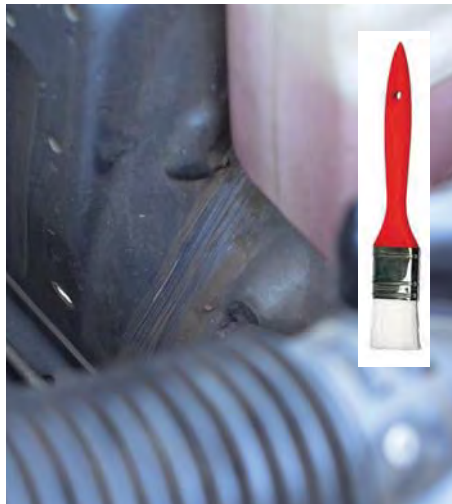
Application on outer and inner door panel of vehicles.



Application on roof trim (Connection of roof panel and side roof panel under roof molding).



Application on slot hinges and door pillars.



Applications on upper and lower apron. Use Nylon Brush to provide brush texture characteristic



Applications with Nylon Brush to produce similar results to seam sealant texture.



Applications on inter-panel connections and covering spot welding marks.



Applications on the inner panel hull / quarter panel.



After fully cured, it can be sanded and painted.

SILICONE REMOVER

For professional cleaning and de-greasing before applying adhesives or paint.

Advantages:

- Product features high cleaning power and long flash-off time.
- Excellently suited for plastic cleaning.

Application:

Aerosol can

- Spray on silicone remover, then rub and dry with a clean cloth.

Bulk can

- Apply Silicone Remover to a clean cloth and thoroughly rub the surface to be treated. Then rub and dry with a clean cloth.

NOTE:

Hazard class/category: Flammable liquids, Category 3; Specific target organ toxicity – single exposure, Category 3, central nervous system; Specific target organ toxicity – repeated exposure, Category 1, central nervous system; Aspiration hazard, Category 1; Chronic aquatic toxicity, Category 2.

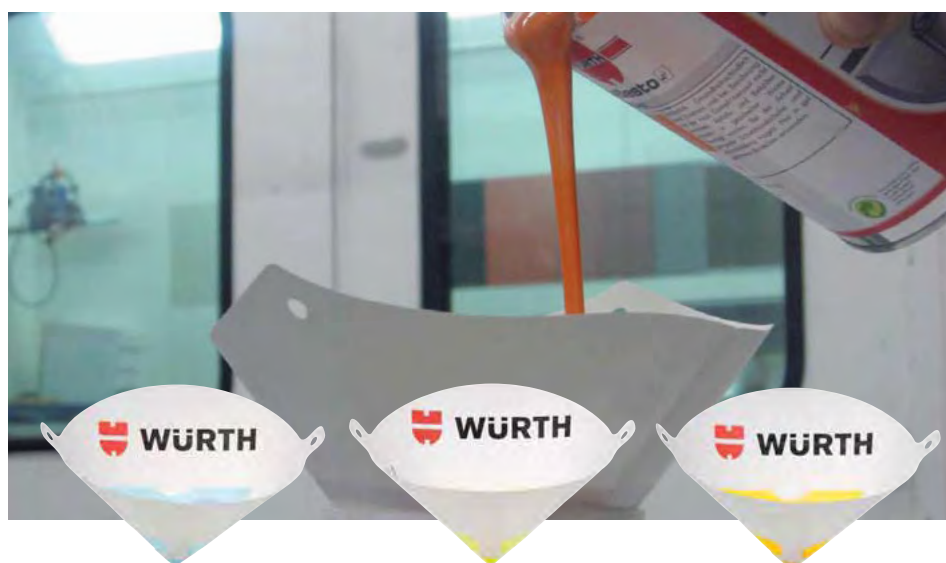


Designation	Content	Art. no.	P.Qty.
Aerosol can	600 ml	0893 222 600	1/6
Can	1 l	0893 222	1/12
Bulk can	5 l	0893 222 5	1
Bulk can	20 l	0893 222 20	1

FILTER SCREENS

Disposable screen for filtering lacquers, paints, primers, chemicals and other liquids.

- Color coding system for simple optical detection of mesh size.



Designation	Mesh color	Art. No.	P. Qty.
Nylon Filter Sieve, 125 my	Blue	0899 700 111	250
Nylon Filter Sieve, 190 my	Yellow	0899 700 110	100
Nylon Filter Sieve, 260 my	Orange	0899 700 100	250

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PAINTABLE BODYWORK SEALANT



- Quick drying.
- Can be painted over.
- Silicone free.

Characteristics:

- Permanently elastic.
- Easily spreadable.
- Can be applied with a brush.
- Resistant to water and mineral oil.
- Good adhesive properties on untreated, primed and painted sheet metal.
- Unaffected by changes of temperature from -25°C up to $+80^{\circ}\text{C}$ (for short periods up to $+150^{\circ}\text{C}$).
- Base: Nitrile rubber.
- Colour: Light grey.
- Shelf life: 6 months at $+20^{\circ}\text{C}$; storage rooms should be well ventilated.

Contents kg	Art. No.	Pack Qty.
1.2	0892 010	6

Sealing compound for recreating the original brush- stroke effect produced at the factory and for sealing of welds, seams, joints and overlaps in motor vehicles.

Application:

Suitable for sealing of metal joints, cracks and overlaps, spot welds on front and rear sections, on boot floor, vehicle floor, passenger compartment, side panels and on wheel arches.



NYLON BRUSH



Flat brush for the application of brushable sealing compound.

Width	Art. No.	Pack Qty.
30 mm	0693 30	10

COVER PAPER "LIGHT"



Specially sealed paper used to cover vehicle bodies and components.

Specially sealed.

- No penetration of clear paints and on waterbased paint and coating systems.

Reduced disposal costs.

- Light, flexible design.
- 48 g/m².

Excellent adaptation capability.

- Paper can easily be adapted to edges and corners.

Can be used in all common dispensers.

- Sleeve diameter: 5 cm.
- Roll diameter: approx. 18 cm.

Roll width in cm	Roll weight approx. in kg	Roll length in m	Art. No.
60	8.7	300	0899 700 860

Areas of application:

Used for covering and protecting vehicle bodies and components from upcoming painting work.

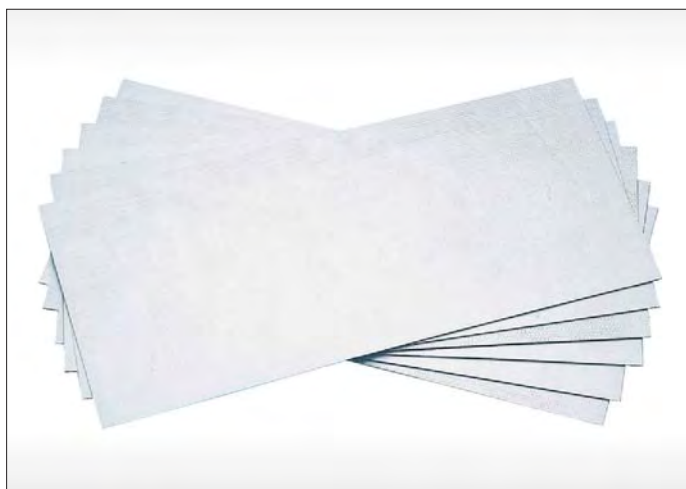
Application:

Cut paper to size and attach to the parts to be protected using masking tape.

NOTE:

Before application, ensure that the paper is attached with the coated side out. In order to avoid a bleeding through of clear lacquers, please ensure that the paper is layed double or a strait paper (22 cm) is tabled.

SOUND DEADENING PADS

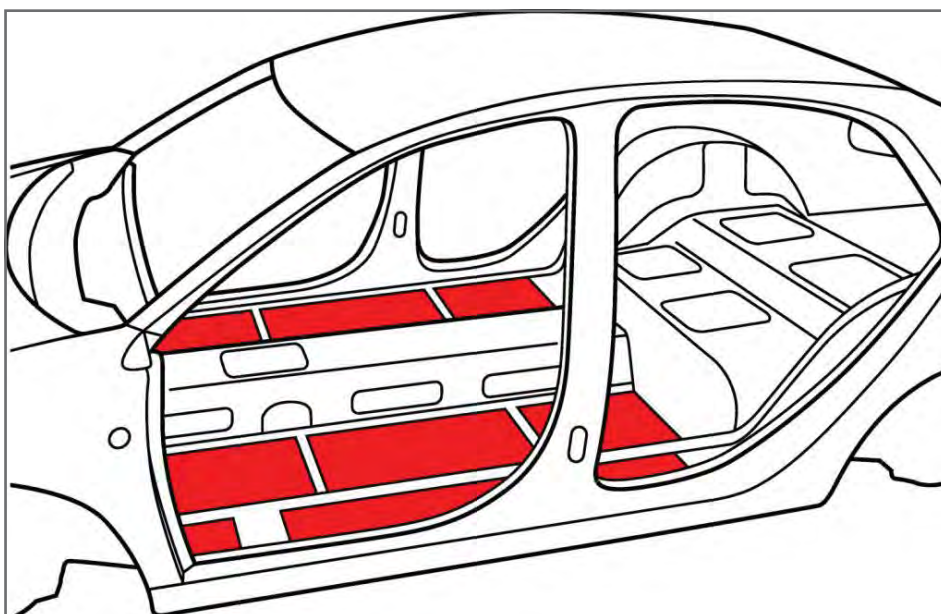
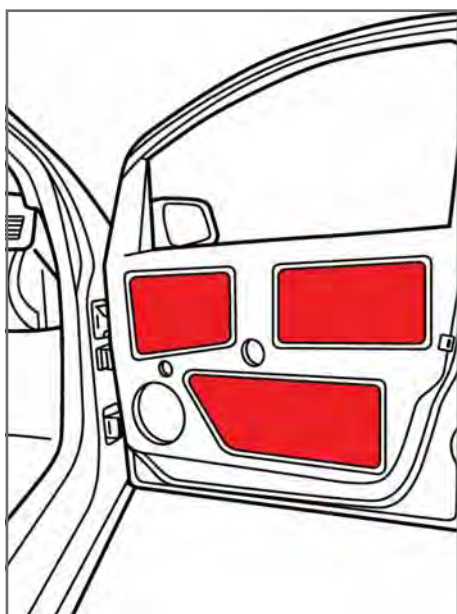
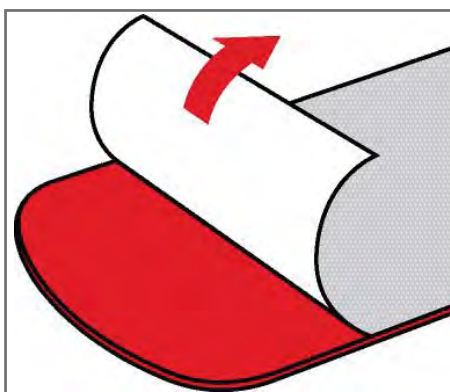
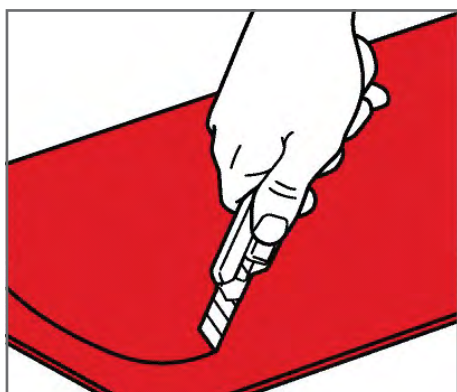


Prevents vibration noise caused by vibrating body parts such as the wheel arches, cardan tunnel, floor group, doors and other side parts.

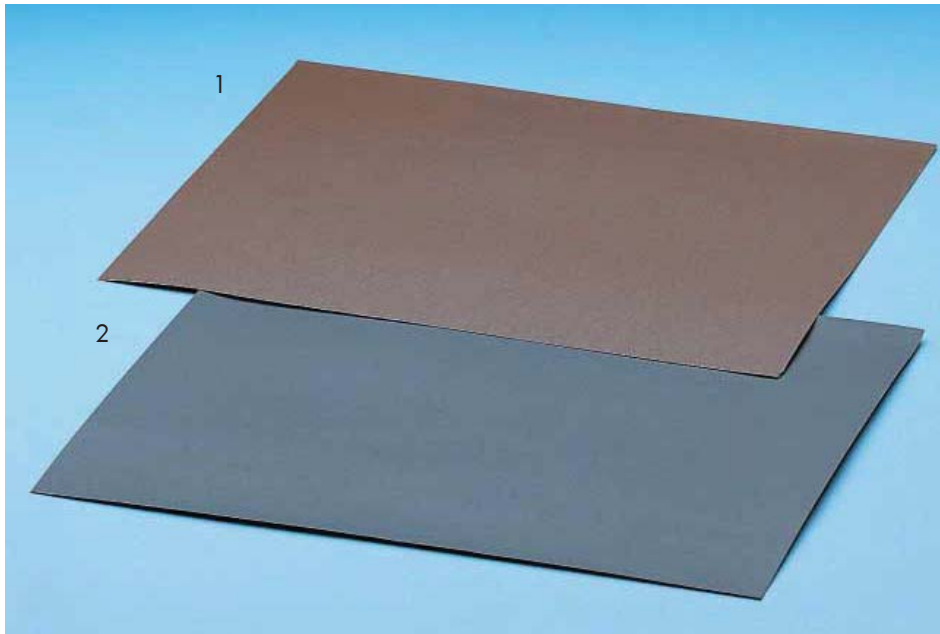
Heavy bitumen pads, aluminium coated, self-adhesive.
Highly adhesive. Reinforced against breaking.
Resistant to water, light acid and alkaline solutions.

High temperature resistance;
T-30°C to +80°C (1 hour + 180°C).

Size	Art.	Qty /P
Putih	0890 100 060	6 pads /box



WATERPROOF ABRASIVE PAPER



- May be used without soaking, extremely flexible backing.
- Precise working on contours.
- Excellent finish.
- Excellent contact to the material and extremely good grip.
- Very good initial and long-term abrasive action with a long service life.

Finish:

Aluminium oxide

Close coating with abrasives

B-paper

Resin bound

Sheet size: 280 x 230 mm

Silicium carbide

Close coating with abrasives

Grain 60 - 150 C-paper

Grain 180 - 1200 B-paper

Sheet size: 280 x 230 mm

Areas of Application:

Aluminium oxide

- Sanding of 2K-acryl paint-systems, especially for final flattening.
- Sanding of fine filler, thick coat fillers, spray primers (P180 - P240), priming fillers, 2K-fill primers (P360 - P800) brass-fill primer, priming fillers (P600 - P800).
- Repair of faults in the paint coat (P1000 - P1200), removal of imbedded dust and dirt particles (P1200).

Silicium carbide

- Sanding of resin-, nitro- and thermoplastical acryl lacquer constructions.
- Sanding of conventional fillers (P400 - P800).
- Correcting paint coat imperfections (P1000 - P2000), removal of imbedded dust and dirt particles (P2000).

Grain	Aluminium oxide ¹ Art. No.	Silicium carbide ² Art. No.	Pack Qty.
P 60	—	0584 11 60	50
P 80	—	0584 11 80	
P 100	—	0584 11 100	
P 120	—	0584 11 120	
P 150	—	0584 11 150	
P 180	0584 01 180	0584 11 180	
P 220	0584 01 220	0584 11 220	
P 240	0584 01 240	0584 11 240	
P 280	0584 01 280	0584 11 280	
P 320	0584 01 320	0584 11 320	
P 360	0584 01 360	0584 11 360	
P 400	0584 01 400	0584 11 400	
P 500	0584 01 500	0584 11 500	
P 600	0584 01 600	0584 11 600	
P 800	0584 01 800	0584 11 800	
P 1000	0584 011 000	0584 111 000	
P 1200	0584 011 200	0584 111 200	
P 2000	—	0584 112 000	

ARIZONA® PERFECT AUTOMOTIVE DRY ABRASIVE PAPER



For sanding old paint, filler, filler compounds, plastics, new parts for factory priming and matting of paint.

Up to 20% greater material removal and increased service life by over 90%

- P40 – 80: Coarse ceramic grain
- P220 and higher: Newly developed stearate concept

Short sanding time, effective working

- 21-hole pattern for thorough and full-surface extraction of the sanding dust
- Suitable for all common adhesive plates

Base material	P40 – 100, D-paper P120 – 240, C-paper P280 – 600, B-paper
Bond	All-synthetic resin
Coating	P40 – 180, stearate coating P220 – 600, special coating which prevents clogging
Abrasive material	P40 – 80: ceramic grain P100 – 600: aluminum oxide
Scattering	Open scattering
Color	Sand yellow
Available grits	P40 – 600
Forms	Disks, strips and rolls

Form	Dia- meter	Width x length	Number of holes	Adhe- sion sys.	Grit	Art. No.	P. Qty.
Roll		115 mm x 25 m			40	5506 247 104	1
Roll		115 mm x 25 m			60	5506 247 106	1
Roll		115 mm x 50 m			80	5506 247 108	1
Roll		115 mm x 50 m			100	5506 247 110	1
Roll		115 mm x 50 m			120	5506 247 112	1
Roll		115 mm x 50 m			150	5506 247 115	1
Roll		115 mm x 50 m			180	5506 247 118	1
Roll		115 mm x 50 m			220	5506 247 122	1
Roll		115 mm x 50 m			240	5506 247 124	1
Roll		115 mm x 50 m			320	5506 247 132	1
Roll		115 mm x 50 m			400	5506 247 140	1
Roll		115 mm x 50 m			500	5506 247 150	1
Disk	150 mm		0 pc.	Klett	40	5506 343 004	50
Disk	150 mm		0 pc.	Klett	60	5506 343 006	50
Disk	150 mm		0 pc.	Klett	80	5506 343 008	100
Disk	150 mm		0 pc.	Klett	100	5506 343 010	100
Disk	150 mm		0 pc.	Klett	150	5506 343 015	100
Disk	150 mm		0 pc.	Klett	180	5506 343 018	100
Disk	150 mm		0 pc.	Klett	220	5506 343 022	100
Disk	150 mm		0 pc.	Klett	240	5506 343 024	100
Disk	150 mm		0 pc.	Klett	320	5506 343 032	100
Disk	150 mm		0 pc.	Klett	400	5506 343 040	100
Disk	150 mm		0 pc.	Klett	500	5506 343 050	100
Disk	150 mm		21 pc.	Klett	40	5506 353 004	50
Disk	150 mm		21 pc.	Klett	60	5506 353 006	50
Disk	150 mm		21 pc.	Klett	80	5506 353 008	100
Disk	150 mm		21 pc.	Klett	100	5506 353 010	100

Applications

Grits P40 – P120

Initial sanding of new-part factory primers (KTL paints), sanding off old paint, sanding out stone-chip damage and rusty areas, sanding dented areas down to bare metal, pre-sanding of polyester and fine filler, leveling of filler edges.

Grits P100 – P600

Initial sanding of old paint at the transition to new paint, matting of top-coat paints, sanding of plain paints, thermoplastic acrylic paints, clear lacquers, water-based paints, thick-film, priming, synthetic-resin and nitro fillers, spray filler, 2-component, MS-filler and reaction primers.

ARIZONA® PERFECT AUTOMOTIVE DRY ABRASIVE PAPER



For sanding old paint, filler, filler compounds, plastics, new parts for factory priming and matting of paint.

Form	Dia.	Width x length	Number of holes	Adhesion sys.	Grit	Art. No.	P. Qty.
Disk	150 mm		21 pc.	Klett	120	5506 353 012	100
Disk	150 mm		21 pc.	Klett	150	5506 353 015	100
Disk	150 mm		21 pc.	Klett	180	5506 353 018	100
Disk	150 mm		21 pc.	Klett	220	5506 353 022	100
Disk	150 mm		21 pc.	Klett	240	5506 353 024	100
Disk	150 mm		21 pc.	Klett	320	5506 353 032	100
Disk	150 mm		21 pc.	Klett	400	5506 353 040	100
Disk	150 mm		21 pc.	Klett	500	5506 353 050	100
Disk	150 mm		21 pc.	Klett	600	5506 353 060	100
Strips		70 mm x 125 mm	8 pc.	Klett	40	5506 128 004	50
Strips		70 mm x 125 mm	8 pc.	Klett	60	5506 128 006	50
Strips		70 mm x 125 mm	8 pc.	Klett	80	5506 128 008	100
Strips		70 mm x 125 mm	8 pc.	Klett	100	5506 128 010	100
Strips		70 mm x 125 mm	8 pc.	Klett	120	5506 128 012	100
Strips		70 mm x 125 mm	8 pc.	Klett	150	5506 128 015	100
Strips		70 mm x 125 mm	8 pc.	Klett	180	5506 128 018	100
Strips		70 mm x 125 mm	8 pc.	Klett	220	5506 128 022	100
Strips		70 mm x 125 mm	8 pc.	Klett	240	5506 128 024	100
Strips		70 mm x 125 mm	8 pc.	Klett	320	5506 128 032	100
Strips		70 mm x 125 mm	8 pc.	Klett	400	5506 128 040	100
Strips		70 mm x 125 mm	8 pc.	Klett	500	5506 128 050	100
Strips		70 mm x 198 mm	8 pc.	Klett	40	5506 129 004	50
Strips		70 mm x 198 mm	8 pc.	Klett	60	5506 129 006	50
Strips		70 mm x 198 mm	8 pc.	Klett	80	5506 129 008	100
Strips		70 mm x 198 mm	8 pc.	Klett	100	5506 129 010	100
Strips		70 mm x 198 mm	8 pc.	Klett	120	5506 129 012	100
Strips		70 mm x 198 mm	8 pc.	Klett	150	5506 129 015	100
Strips		70 mm x 198 mm	8 pc.	Klett	180	5506 129 018	100
Strips		70 mm x 198 mm	8 pc.	Klett	220	5506 129 022	100
Strips		70 mm x 198 mm	8 pc.	Klett	240	5506 129 024	100
Strips		70 mm x 198 mm	8 pc.	Klett	320	5506 129 032	100
Strips		70 mm x 198 mm	8 pc.	Klett	400	5506 129 040	100
Strips		70 mm x 198 mm	8 pc.	Klett	500	5506 129 050	100
Strips		70 mm x 420 mm	14 pc.	Klett	40	5506 157 004	50
Strips		70 mm x 420 mm	14 pc.	Klett	60	5506 157 006	50
Strips		70 mm x 420 mm	14 pc.	Klett	80	5506 157 008	100
Strips		70 mm x 420 mm	14 pc.	Klett	100	5506 157 010	100
Strips		70 mm x 420 mm	14 pc.	Klett	120	5506 157 012	100
Strips		70 mm x 420 mm	14 pc.	Klett	150	5506 157 015	100
Strips		70 mm x 420 mm	14 pc.	Klett	180	5506 157 018	100
Strips		70 mm x 420 mm	14 pc.	Klett	220	5506 157 022	100
Strips		70 mm x 420 mm	14 pc.	Klett	240	5506 157 024	100
Strips		70 mm x 420 mm	14 pc.	Klett	320	5506 157 032	100
Strips		70 mm x 420 mm	14 pc.	Klett	400	5506 157 040	100
Strips		70 mm x 420 mm	14 pc.	Klett	500	5506 157 050	100
Strips		115 mm x 230 mm	10 pc.	Klett	40	5506 132 004	50
Strips		115 mm x 230 mm	10 pc.	Klett	60	5506 132 006	50
Strips		115 mm x 230 mm	10 pc.	Klett	80	5506 132 008	100
Strips		115 mm x 230 mm	10 pc.	Klett	100	5506 132 010	100

STAINLESS-STEEL CUTTING WIRE



Extremely smooth surface, cuts through the adhesive bead more easily

- In practical plastic dispenser roll

Designation	Dimensions in mm	Edge radius in mm	Tensile strength in N/mm ²	Length in m	Art. No.	P. Qty.
Square, stainless steel	0.6 x 0.6	0.1	2,000 - 2,100	50	0891 656	1

ROUND-WIRE CUTTING WIRE



The knotted winding offers a high sawing effect despite a lack of cutting edges

- Secured on a plastic spool

Designation	Dimensions in mm	Edge radius in mm	Tensile strength in N/mm ²	Length in m	Art. No.	P. Qty.
Knotted round wire	0.8 mm dia.	None	2,000 - 2,100	22.5	0714 58 28	1

BODY SAW BLADES WITH FLAT MOUNTING



- Special quality for higher-strength vehicle body sheet metal
- Designed for high cutting speed and long service life

Item	Material	For wall thickness in mm	Teeth per inch	Suitable for	Tooth spacing in mm	Art. No.	P. Qty.
1	For wood, aluminum, composites and plastic	Over 4	14	Würth DST Mini/ DST 380, Chigogo Pneumatics (CP), Pneutec	1.8	0696 914 1	10
2	For tight radii	Over 4	18		1.4	0696 918 1	
3	For double and triple sheeting	Up to 4	24		1	0696 924 1	
4	For thin sheet metal and higher-strength steels	Up to 1	32		0.8	0696 932 1	

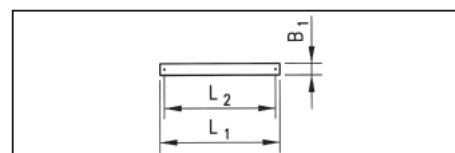
BODYWORK FILE BLADES



Type	Teeth per inch	Length L1 mm	Hole distance L2 mm	Width B1 mm	Art. No.	Pack Qty.
Radial coarse	9	350	325	35	0714 61 71	1
Radial medium	12				0714 61 72	

- Flat.
- Double-sided radial milled.
- Suitable for bodywork file holders

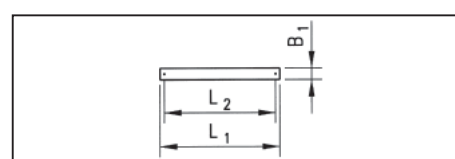
Art. No. 0714 61 73



Type	Teeth per inch	Length L1 mm	Hole distance L2 mm	Width B1 mm	Art. No.	Pack Qty.
Diagonal coarse	9	350	325	35	0714 61 711	1
Diag. medium	12				0714 61 712	
Diagonal fine	18				0714 61 713	

- Flat.
- Double-sided diagonally milled.
- Suitable for bodywork file holders

Art. No. 0714 61 73



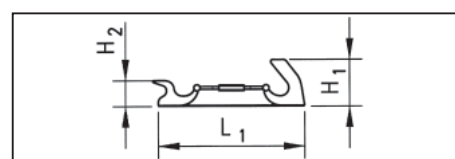
BODYWORK FILE HOLDER



For Blade Width mm	Length L1 mm	Height H1 mm	Height H2 mm	Art. No.	P. Qty.
35	350	110	60	0714 61 73	1

- Adjustable concave and convex

- Aluminium handle.



ACCESSORIES FOR SPOT WELDING



Art. 0691 500 095
Dent killer for the removal of small dents and scratches



Art. 0691 500 192
Adapter set for dent killer.



Art. 0691 500 140
Maxilifter to extend the dent killer for use on large dents



Art. 0691 001 42
Electrode coupling for dent killer and maxilifter



Art. 0691 500 144
Bi-puller for shaft wire



Art. 0691 500 095
0691 500 145 + 0691 500 146
Sliding hammer for bi-puller with coupling piece



Art. 0691 500 143
Triple claw for maxilifter



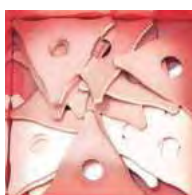
Art. 0691 500 147
Shaft wire for dent removal with bi-puller and triple claw



Art. 0691 500 148
Electrode for shaft wire



Art. 0691 500 280
Punched discs
8x16x1.5 mm



Art. 0691 500 281
Special three-sided pulling eyelets



Art. 0691 500 080
Welding bolts
Ø 2.0 mm



Art. 0691 500 081
Welding bolts
Ø 2.6 mm



Art. 0691 500 076
Pull-out device for welding bolts



Art. 0691 500 263
Replacement casing for pull-out device



Art. 0691 500 263
Carbon electrode for pulling-in device

SPOT WELD MILLING CUTTER



Application Examples	Art. No.	P. Qty.
Bodywork workshops, Sheet metal processing workshops, Apparatus construction	0698 1 Spot weld milling cutter	1
	0698 01 Spare spot weld milling cutter	

- Milling depth can be set by using the setting screw.
- Cutter crown can be used both sides.
- No tearing of sheet metal.
- No deformation.
- Quick and economical.

SPOT WELD DRILL BIT



Special drill bit for the removal of spot welds.

HSCO Spot Weld Drill Bit TIN-coated

TIN coating extends cutting life by a factor of between two and three.

Ø mm	Total length mm	Groove length mm	Art. No.	Pack Qty.
6	65	28	0710 006 6	1
8	78	38	0710 008 8	
10	88	44	0710 010 10	

Maximum speed:

for Ø 6: up to 1,200 rpm,

for Ø 8: up to 950 rpm,

for Ø 10: up to 730 rpm.

Tips to enhance the lifespan of the centering tip:

Do not use in drills with an impact chuck or spindles.

Set the drill to a suitable speed; the speed of compressed air devices is generally set too high.

- **Fixed centering tip; no centre-punching is required.**
- **Improved PLUS centering tip is also suitable for high-strength car body sheets.**
- **Optimized geometry of the tip ; longer service life than for conventional spot weld drill bits.**
- **Suitable for use in any standard drill.**

HSS DRILL BIT SET TYPE RN



HSS DIN 338 TYPE RN - 19 pcs set

Art. **0625 01**

High-precision drills for stainless steel, especially with great heat generation.

Precise drilling

The sturdy twist drill with its short design provides for precise drilling.

Self-centering

Crosswise grinding ensures an excellent centering effect even on round materials, eliminating the need for center-punching or piloting.

High-Speed Steel (HSS); can stand higher temperatures without losing its temper (hardness); allows HSS to drill faster.

Ergonomic packaging; it's very easy to select any drill bit size and to draw them from the container.

For Professional use, available from 1 -10mm, with interval of 0,5mm.

SEALANT REMOVER



Removes sealing materials, adhesives, paints, etc. in just minutes

Stable

Does not run off on vertical surfaces.

Broad range of uses on metal, wood, glass, ceramic, polyethylene and polypropylene

Contents: 300 ml

Art. No. 0893 100 0

P. Qty. 1/6

Properties:

Removes residues of baked-on solid seals in just minutes. Engine sealing compounds, hardened adhesives (instant adhesive, screw locking compound, etc.), paint, lacquer, oil residues, grease, resin, etc.

Application:

Shake can thoroughly. Spray surface. Allow to soak for 5-10 min., then work surface with a suitable tool.

NOTE:

Protect painted surfaces. Check compatibility before use. Not suitable for sensitive plastics, PVC and synthetic.

Additional articles:

Gasket Scraper

Art. No. 0714 34 51

P. Qty. 1

RUST CONVERTER



color	content	Art.
beige	1000 ml	0893 110

Fields of application: Maintenance of vehicles and construction machinery, metal structural work, railings, shipyards, etc.

Application:

Surface must be clean, dry and grease-free. Remove loose rust, paint and dirt with a wire brush, scraper etc. Apply an even, thin layer with a brush or roller. Avoid runs. Paint over within 48 hours. Comply with reaction time of three hours. Mask off surfaces not to be treated.

Dispersion-based, environmentally friendly rust converter

Can be painted over

- Can be painted over with most solvent based metal protective paints after 3 hours.
- Suitable for being covered with filler
- Environmentally friendly as dispersion-based
- Safety product
- Lower hazard potential at the workplace

Properties:

Reliably stops the corrosion process and offers an optimized surface for further painting.

Rust converter penetrates into the rust, reacts with the rust and converts iron oxide into a stable, insoluble, blue-black, metallo-organic complex.

RUST CONVERTER SPRAY



designation	content	Art.
Aerosol Can	400 ml	0893 110 400

Areas of application: To be used to maintain and repair steel machine parts and components used in the agricultural, automotive and industrial sectors.

Application:

Remove loose rust, grease, dirt and coats of paint under which rust has formed. Clean the rusty area thoroughly. Before use, shake the can vigorously, then spray on 3-4 thin layers (spray distance approx. 25-30 cm). Can be recoated after approx. 2 hours. For enhanced corrosion protection, repainting with a top coat is recommended.

Ideal for repainting heavily rusted areas

Neutralises the rusted layer on a component and forms a metal-organic iron complex.

The corrosion protection paint with rust-converting properties is ideal for repainting heavily rusted areas.

Properties:

- Halts the corrosion process
- Provides lasting protection for all metallic surfaces
- Creates a high-quality epoxy primer to enable further processing
- Offers reliable protection in the form of an acid-free formulation
- Protects within cracks and pores too due to excellent penetration properties

CORROSION PROTECTION SPRAY



High creep capacity, colourless special fluid.

- Low-viscosity special oil with excellent creep properties
- Also protects hard-to-reach areas. Stops the progress of corrosion.
- Very good material compatibility on various surfaces, e.g. varnished surfaces, metals and plastics.
- For a broad range of uses.
- Self-sealing protective that does not dry on.
- Scratches, stone impacts etc are automatically sealed again.
- No areas for liquids to attack.
- Economical.
- Saves time and money.
- Excellent salt water resistance in acc. with DIN 50021.
- Optimum protection, even under the hardest conditions.

Areas of Application:

For preserving tools, machine and vehicle attachments, e.g. snow chains or roof racks. Can be used in awkward places in the engine compartment, on chassis joints and wheel wells. Optimum protection for motorcycles and bicycles, particularly when put into storage for the winter. Very well suited for all surfaces on parts and subjected to a high salt content, e.g. near the coast or at sea. Boat engines and attachments are optimally preserved. e.g. out board motors, jet skis, leisure craft. Also suitable on magnesium alloy components to reduce surface corrosion. Clean and dry the surfaces to be treated. Next, apply a thin coating of corrosion protection spray. For optimum protection, repeat the application every 6 months.

Description	Contents	Art. No.	Pack Qty.
Corrosion Protection Spray	300ml	0893 15	1/12

This information is only a recommendation based on our experience. Check material compatibility on a non-visible area if necessary.

With this information we want to advise you to the best of our knowledge based on our tests and experience. However, we shall assume no liability for the application results in individual cases due to the large number of applications and the storage and application conditions which lie outside the scope of our influence. This also applies to the use of the non-binding technical and commercial Customer Service we provide. We always recommend that you conduct your own tests. We guarantee the consistent quality of our products. We reserve the right to make technical changes and carry out further development.

POLYMERIC SURFACE PROTECTION



Application:

Surfaces to be treated must be cleaned beforehand. Spray on Polymeric Surface Protection, distribute with sponge and wipe dry with clean cloth.
Do not let it dry on.

Contents	Art. No.	P. Qty.
500 mL	0893 158	1/12

Areas of application:

For all painted surfaces, e.g. auto paints, and glass (windshields) and metal surfaces.

Transparent surface protection for sealing and preserving smooth surfaces and for removing polishing marks and holograms

Contains high-quality polymers

- Polishing marks are reliably removed
- Exceptional weather- and UV-resistance
- Gives painted surfaces a brilliant shine

Lotus effect

- Water- and dirt-repelling action
- Prevents lime deposits from forming
- Reduces cleaning and care expenditure

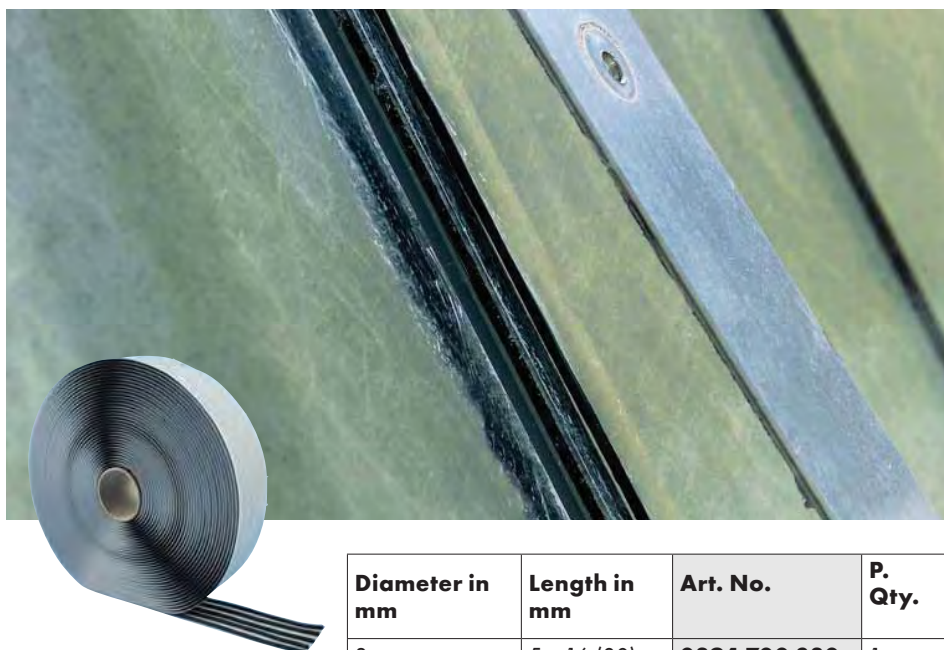
Silicone- and solvent-free

Non-toxic

Biodegradable according to OECD 302B.

Resistant to solvents, acids and bases

BUTYL ROUND CORD



Diameter in mm	Length in mm	Art. No.	P. Qty.
3	5 x 16 (80)	0894 700 380	1

- For the round butyl cord, the same product technical properties as in the case of the butyl tape (Art. No. 0894 700 122 / 202) apply.

Areas of application:

- Fastening of mounting parts of vehicles, such as the gluing of lower door cover films, attachment of decorative moldings.
- Sealing of storage tanks, silos, roofs made of trapezoidal plates, and others to prevent vibrations.
- All overlapping seals as with butyl tape (see above)
- Ideal use on uneven foundations.

With this information we want to advise you to the best of our knowledge based on our tests and experience. We assume no liability for the application results in individual cases, however, due to the large number of applications and the storage and application conditions that lie outside the scope of our influence. This also applies to the use of the non-binding technical and commercial customer service we provide. We always recommend that you conduct your own tests. We guarantee the consistent quality of our products. We reserve the right to make technical changes and carry out further development. For further information, see the Technical Data Sheet.

AUTOMOTIVE LIGHTINGS

AUTOMOTIVE LIGHTINGS



H1



Volt	Watt	Color	Art.
12 v	55	Clear	07207111
12 v	100	Clear	1072012010001

H3



Volt	Watt	Color	Art.
12 v	55	Clear	1072012005502
12 v	100	Clear	072071224

H4



Volt	Watt	Color	Art.
12 v	60/55	Clear	0720710160
12 v	60/55	Fourseason	1072012106003
12 v	60/55	Xenon	1072012206003
12 v	100/90	Clear	0720710110
12 v	100/90	Fourseason	1072012110003
12 v	100/90	Xenon	1072012210003
12 v	100/90	I-Vision	107201201000350
12 v	130/90	Fourseason	1072012213

H7



Volt	Watt	Color	Art.
12 v	55	Clear	07207141
12 v	100	Clear	1072012010004

H11



Volt	Watt	Color	Art.
12 v	25	Clear	1072012002506
12 v	55	Clear	0720718011
12 v	55	Fourseason	1072012105505
12 v	55	Xenon	1072012205505
12 v	100	Clear	1072012010005

H27



Volt	Watt	Color	Art.
12 v	27	Clear	0720118028

HB4



Volt	Watt	Color	Art.
12 v	55	Clear	07207104
12 v	55	Fourseason	1072012105507
12 v	80	Clear	1072012008007

S25



Volt	Watt	Color	Art.
12 v	21	Clear	07207321
12 v	21/5	Clear	07207341

T20



Volt	Watt	Color	Art.
12 v	21	Clear	1072012002114
12 v	21/5	Clear	1072012021514

CLEANING PRODUCTS

ACTIVE-FOAM WASH



Designation	Contents in L	Art. No.	P. Qty.
Canister	25	0893 025 2	1

Areas of application:

Very foamy brush washing of cars and utility vehicles in automatic car washes.

Application:

Depending on the equipment type, dose as a concentrate or with up to 9 parts water. The foaming intensity can be adjusted via infed air and the cleaner dosing, depending on requirements.

Consumption per vehicle: approx. 12- 14 ml.

NOTE:

Don't let them dry. Store in a frost-free location.

Intensive, highly concentrated foam cleaner for foam pre-treatment and washing of vehicles in car washes.

Highly concentrated active foam

- The dirt is actively removed from the surface of the vehicle when the foam bubbles burst
- Outstanding dirt dissolving power.

Combination of special contents supports the sliding motion of the brush

- Gentle on vehicle surfaces
- Prevents the brushes from getting dirty again
- Longer brush service life.

No streaking with preservatives and drying aids

- Can be used together with these in car washes with water recovery systems

Free of phosphate, AOX and silicone.

pH value in the concentrate: 8.5

Degrades easily in accordance with OECD* requirements. Does not hamper the effectiveness of light-fluid separators.

* OECD = Organisation for Economic Co-operation and Development

Additional articles:

Prespray

Art. No. 0893 025 9

Hot preserving wax

Art. No. 0893 025 3

Drying aid

Art. No. 0893 025 6

This information is only a recommendation, since it is based on our experience. Preliminary testing required.

BMF CLEANER



The environmentally friendly cleaner for production shops, machines and vehicles

- Contains no phosphates, organic solvents or caustic substances
- Biodegrades very efficiently
- Can be applied mechanically, by hand, and from high-pressure devices
- Dissolves grease powerfully, yet is mild and does not damage material
- Does not attack paintwork, rubber or plastics
- Fast-separating in waste water in accordance with German Ecological Standard Test B 5105.

pH value: 9.4

Silicone-free

AOX-free

Application:

In the high-pressure cleaner

Concentration 3 – 5 %.

In floor-cleaning machines

Concentration 3 – 10 %.

Designation	Contents	Contents	P. qty.
Canister	5 L	0893 118 2	1
Canister	20 L	0893 118 3	
Pump spray can	1 L	0891 511 8	

PUMP SPRAY BOTTLE



Extra fields for safety instructions



Individually markable label

For easy application of products from canister or barrels.

Safe manual tapping from portable vessels

Easier to open, thanks to tactile elements

Ergonomic, robust pump spray atomizer with long handle

- Fatigue-free working thanks to low operating force
- Can also be hooked into the mobile workshop

Individually markable label

- Space for labeling the type of liquid filling
- Extra fields for safety instructions

Good stability thanks to conical shape

Art. No.	0891 503 001
P. Qty.	1
Contents	1000 ml

INDUSTRY CLEANER



Special cleaner for industry and craft trades.

- Easy removal of adhesive residues, labels and adhesive tapes.
- Stubborn dirt such as wax, rubber abrasion, silicone residues, permanent marker, oil and grease are loosened.

Gentle on materials

- Sensitive surfaces such as aluminium, brass and stainless steel are not attacked.

User-friendly

- No unpleasant odours for users and the environment.
- Fast and effective cleaning.

Acetone-free

Silicone- and AOX-free

Designation	Contents	Art. no.	PU/Qty.
Canister	20 L	10890 107019	1

Applications:

Cleans machine parts, plastic parts and metallic surfaces of adhesive residues. Also suitable for removing protective preservatives e.g. on brake discs.

NOTE:

Prior to treatment, check rubber and plastic parts for compatibility in an invisible location. Paints may be attacked.

CAR AND WINDOW CHAMOIS



Designation	Dimensions in cm	Art. No.	P. Qty.
Car and Window Chamois	70 x 45	0899 700 630	1

Applications:

Suitable for cleaning windows and mirrors, for polishing and for paint care after using a car wash. The leather absorbs all remaining water droplets without leaving any residue.

Made of real sheepskin

High water absorption capacity
Minimal time required

Completely natural product

- Does not irritate the skin
- Environmentally safe
- Lint-free
- Durable

Care information

To ensure durability, wash out the car and windshield chamois after every use, but do not use any acidic or degreasing detergents.

Wring out the cloth and leave it spread out to dry naturally. Do not place it onto a radiator or in direct sunlight.

"PRO" MICRO-ACTIVE CLOTH



Color	Dimensions in cm	Surface weight g/m ²	Art. No.	P. Qty.
blue*	40 x 40	300	0899 900 131	1

Areas of application:

The "Pro" micro-active cloth is optimally suited for maintenance cleaning and vehicle detailing. When dry, the cloth attracts dust and fine deposits like a magnet thanks to its static charge. Coarse and greasy dirt is removed by moistening the cloth before use.

Technical Data	
Absorption in 10 sec.	702.50%
Max. absorption	704.30%
Total absorption time	30 sec.
Fiber composition	PET/PA micro-fiber

Extremely high cleaning power

- Minimal time required
- Cleans streak and lint-free
- Attracts dust with static effect

Cleans without using cleaning agents

- Cost savings
- Optimally suited for polishing work
- Reduced environmental pollution
- Protects against allergies

Extremely fine, strong fibers

- Excellent sliding properties
- Hologram-free high-sheen polishing
- Durable
- Bonds dust on wood

Loopless

- Does not leave behind scratch marks

Easy to care for

- Washable up to 60 °C
(do not wash with softener)
- Simply air-dry after use

CLEANING SPONGE CLAY SERIES



Art. No.	0585 300 110
P. Qty.	1
Colour	Black/red
Length x width	110 x 70 mm

Related products	Art. No.
Pump spray bottle	0891 503 001
Universal cleaner R1	0893 125 005

Areas of application:

For fast and effortless removal of paint spray mist, resin, tar and insect remains, especially in the detailing of new and used vehicles. Painted surfaces, glass, chrome, etc.

Application:

Rinse the area to be cleaned and the cleaning pad thoroughly with water or PH neutral car shampoo (we recommend highly diluted R1 cleaner art. no. 0893125005). Then treat the damp surface with the cleaning pad, without applying pressure. To clean with the cleaning pad, the surface and the cleaning pad must always be damp. We recommend moistening the surface and the cleaning pad with a pump spray bottle as required during the cleaning process.

After completing the cleaning process, simply remove any residue with a microfibre cloth. The surface is perfectly prepared for polishing or sealing.

Efficient deep cleaning and perfect preparation of painted surfaces for the best polishing results

- Easily removes stubborn residue and dirt from painted surfaces that cannot be removed by conventional cleaning, producing a mirror-like finish.
- Especially gentle cleaning owing to very low heat development and avoidance of aggressive cleaning agents.
- Washable and reusable
- Considerable time, energy and cost savings
- Very easy to apply

The usage instructions are recommendations based on the tests we have conducted and are based on our experience; carry out your own tests before each application. We do not assume any liability for a specific application result due to the large number of applications and storage and processing conditions. Insofar as our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee consistent quality of our products. We reserve the right to make technical changes and further develop products.

CLEANING PAD CLAY SERIES



Art. No.	0585 300 150
P. Qty.	1
Colour	Black/red
Diameter	150 mm

Related products	Art. No.
Pump spray bottle	0891 503 001
Universal cleaner R1	0893 125 005
Eccentric polishing machine EPM 160-E	5707 500 0

Areas of application:

For fast and effortless removal of paint spray mist, resin, tar and insect remains, especially in the detailing of new and used vehicles. Painted surfaces, glass, chrome, etc.



Application:

Rinse the area to be cleaned and the cleaning pad thoroughly with water or PH neutral car shampoo (we recommend highly diluted R1 cleaner art. no. 0893125005). Then treat the damp surface with the cleaning pad, without applying pressure. To clean with the cleaning pad, the surface and the cleaning pad must always be damp. We recommend moistening the surface and the cleaning pad with a pump spray bottle as required during the cleaning process.

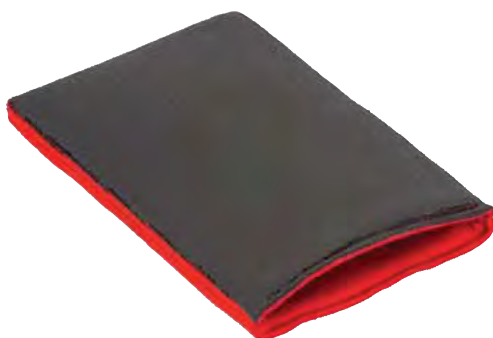
After completing the cleaning process, simply remove any residue with a microfibre cloth. The surface is perfectly prepared for polishing or sealing.

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- Washable and reusable
- Considerable time, energy and cost savings
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CLEANING GLOVE CLAY SERIES



Art. No.	0585 300 210
P. Qty.	1
Colour	Black/red
Length	210 mm
Width	140 mm

Related products	Art. No.
Pump spray bottle	0891 503 001
Universal cleaner R1	0893 125 005

Areas of application:

For fast and effortless removal of paint spray mist, resin, tar and insect remains, especially in the detailing of new and used vehicles. Painted surfaces, glass, chrome, etc.



Application:

Rinse the area to be cleaned and the cleaning pad thoroughly with water or PH neutral car shampoo (we recommend highly diluted R1 cleaner ref no. 0893125005). Then treat the damp surface with the cleaning pad, without applying pressure. To clean with the cleaning pad, the surface and the cleaning pad must always be damp. We recommend moistening the surface and the cleaning pad with a pump spray bottle as required during the cleaning process.

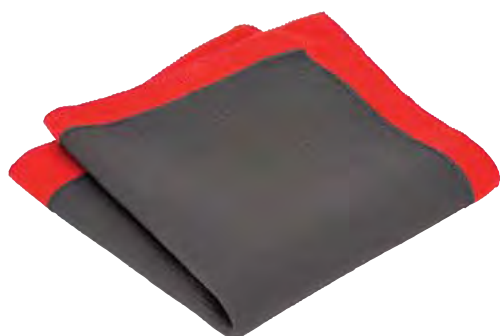
After completing the cleaning process, simply remove any residue with a microfibre cloth. The surface is perfectly prepared for polishing or sealing.

Efficient deep cleaning and perfect preparation of painted surfaces for the best polishing results

- Easily removes stubborn residues and stains from painted surfaces that cannot be removed by conventional cleaning, producing a mirror-like finish.
- Especially gentle cleaning owing to very low heat development and by excluding aggressive cleaning agents.
- Washable and reusable
- Considerable time, energy and cost savings
- Very easy to apply

The usage instructions are recommendations based on the tests we have conducted and are based on our experience; carry out your own tests before each application. We do not assume any liability for a specific application result due to the large number of applications and storage and processing conditions. Insofar as our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee consistent quality of our products. We reserve the right to make technical changes and further develop products.

CLEANING CLOTH CLAY SERIES



Art. No.	0585 300 320
P. Qty.	1
Colour	Black/red
Length	320 mm
Width	300 mm

Related products	Art. No.
Pump spray bottle	0891 503 001
Universal cleaner R1	0893 125 005

Areas of application:

For fast and effortless removal of paint spray mist, resin, tar and insect remains, especially in the detailing of new and used vehicles. Painted surfaces, glass, chrome, etc.



Application:

Rinse the area to be cleaned and the cleaning pad thoroughly with water or PH neutral car shampoo (we recommend highly diluted R1 cleaner ref no. 0893125005). Then treat the damp surface with the cleaning pad, without applying pressure. To clean with the cleaning pad, the surface and the cleaning pad must always be damp. We recommend moistening the surface and the cleaning pad with a pump spray bottle as required during the cleaning process.

After completing the cleaning process, simply remove any residue with a microfibre cloth. The surface is perfectly prepared for polishing or sealing.

Efficient deep cleaning and perfect preparation of painted surfaces for the best polishing results

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CLAY POLISH AND CLEANER



Weight	Art. No.	P. Qty.
210 g	0893 157 1	1

Areas of application:

For fast and effortless removal of paint spray mist and resin, tar and insect remains, especially in the detailing of new and used vehicles.

Application:

Moisten surface and clay with a lubricant (e.g. Würth Active Glass Cleaner). Process surface using light pressure. Wipe dry with a soft, clean cloth.

Synthetic clay used for the removal of spray mist and soil buildup.

Contains synthetic polymers without abrasives.

Gentle particle removal without grinding or repolishing. Deep-pore cleaning of all smooth surfaces. Stays soft, does not become brittle.

Solvent- and chemical-free.

Paints and sensitive surfaces are not attacked.

ENGINE WASH



Designation	Contents l	Art. no.	PU
Canister	5	0893 013 05	1/12
Canister	20	0893 013 20	1

Application:

Spray the undiluted engine wash onto the engine, engine compartment and gearbox. Rinse off thoroughly with a steam jet after a brief soaking time. Can also be used in a high-pressure device. Can be used with cold and warm water. Mixing ratio 1:1 to 1:10.

Powerful engine cleaner for engines, engine compartments and gearboxes.

Good cleaning performance

- Quickly and thoroughly removes oil, grease and other soiling
- The cleaner adheres to vertical surfaces due to its viscosity, which means that it can get under the dirt and loosen it to optimal effect

Gentle on materials

- Delicate surfaces such as aluminium, tin and zinc as well as painted surfaces, plastics and rubber are not attacked due to the lack of aggressive substances.

Bio-degradable $\geq 95\%$ (OECD and closed bottle test)

Fast-separating in accordance with German Ecological Standard Test B 5105

Oily, greasy soiling is not emulsified but penetrated and dissolved. The resulting wastewater can therefore be separated via a light-oil separator.

Does not contain AOX compounds or organic solvents

No phosphates or complex compounds

Silicone-free

Additional articles:

Tap for 5 L:

Art. no. 0891 302 01

Tap for 20 L and 60 L:

Art. no. 0891 302 03

Pump spray bottle

Art. no. 0891 503 001

Foam gun

Art. no. 0891 612

This information is only a recommendation based on our experience. Preliminary testing required! While using the product, both the technical data sheet and the specifications of the applicable regulations are to be complied with.

HAND CLEANER PLUS



Art. No.	0893 900 01
P. Qty.	6
Contents	350 ml
Power	●●●○○
Odor/Scent	Lemon
Color	Beige RAL 1001
pH	6.5
Alkali-free	Yes

Supplement to Art. No.:	Designation	Art. No.
0893 900 01	Combi Skin Care Lotion	0890 600 109

Application:

Powerful cleansing action removes oil, grease, graphite, metal dust and soot.

Hand cleaner for medium to heavy dirt with natural abrasive in practical head stand bottle.

Practical

- Head stand bottle for full use of contents
- Tube with rubber lip prevents dripping and enables exact dosing

Hypoallergenic

- Protects and moisturizes
- Ingredients with prophylactic effect prevent skin irritations
- High moisturizing effect
- pH-neutral and soap-free
- Dermatologically tested

Biodegradable

- Environmentally friendly
- Does not block drains

Alkali and silicone-free

HAND CLEANER PLUS REFILL

Art. No.	0893 900 1	
P. Qty.	1	6
Contents	3500 ml	3500 ml
Power	●●●○○	●●●○○
Odor/Scent	Lemon	Lemon
Color	Beige	Beige
pH	6.5	6.5
Alkali-free	Yes	Yes



Hand cleaner for medium to stubborn dirt. Refill for buckets, Art. No. 0893 900 0 and 0890 600 701.

The usage information provided here consists of recommendations based on our testing and experience. Additional testing must be carried out before using the product in a new application. Due to the large number of possible applications and storage/usage conditions, we make no guarantee as to any specific results of use. Insofar as our free customer service provides technical information or advice, we shall not be held liable in any way unless the advice or information is part of the contractual scope of our services which must be provided or if the person giving the information is acting deliberately. We guarantee the consistent quality of our products and reserve the right to make technical changes and continue development.

HAND CLEANER PLUS



For dispenser system Art. No. 0891 901. Hand cleaner for medium to stubborn dirt with natural abrasive.

Hypoallergenic

- Protects and moisturizes
- Ingredients with prophylactic effect prevent skin irritations
- High moisturizing effect
- pH-neutral and soap-free
- Dermatologically tested

Biodegradable

- Environmentally friendly
- Does not block drains

Alkali and silicone-free

Art. No.	0893 900 0	
P. Qty.	1	6
Contents	4000 ml	4000 ml
Power	●●●○○	●●●○○
Odor/Scent	Lemon	Lemon
Color	Beige RAL 1001	Beige RAL 1001
pH	6.5	6.5
Alkali-free	Yes	Yes

Supplement to Art. No.:	Designation	Art. No.
0893 900 0	Dispenser System	0891 901
	Skin Protection Cream	0890 600 100
	Wall Holder	0891 900 2
	Dispensing pump	0891 901 1
	Hand Cleaner Refill	0893 900 1

Application:

Powerful cleansing action removes oil, grease, graphite, metal dust and soot.

DISPENSER SYSTEM



With wall holder for 4 liter container Hand Cleaner Plus, Art. No. 0893 900 0

Practical dispensing pump

- Pressure pump immediately dispenses hand cleaner when pressed
- Precise dispensing (6 cm³)

Total height 40 cm

Art. No.	0891 901
P. Qty.	1
Material	Plastic/Metal
Contents	1 pressure pump, 1 wall holder with screws and dowels

Contents Art. No.	Designation	Art. No.	Quantity
0891 901	Wall Holder	0891 900 2	1
	Dispensing pump	0891 901 1	1



Supplement to Art. No.:	Designation	Art. No.
0891 901	Hand Cleaner	0893 900 0

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ELECTRICAL

BLADE FUSES

Designed to fit a wide range of both passenger and commercial vehicles.

				
Type		Mini SAE J2077, Shape F QC/T 420, DIN 72581	Mini Low Height QC/T 420	ATO (Standard) SAE J1284, Shape C QC/T 420, DIN 72581
Amperes	Color	Art.	Art.	Art.
1		-	-	-
2		5208 300 02	5208 302 02	5208 002
3		5208 300 03	5208 302 03	5208 003
4		5208 300 04	5208 302 04	5208 004
5		5208 300 05	5208 302 05	5208 005
7.5		5208 300 75	5208 302 07	5208 007 5
10		5208 300 10	5208 302 10	5208 010
15		5208 300 15	5208 302 15	5208 015
20	Yellow	5208 300 20	5208 302 20	5208 020
25	Natural	5208 300 25	5208 302 25	5208 025
30		5208 300 30	5208 302 30	5208 030
35		-	-	5208 035
40		-	-	5208 040
50		-	-	-
60		-	-	-
70		-	-	-
80	Natural	-	-	-



Installation:

- Remove existing blade fuse from fuse socket.
- Insert blade fuse.
- Closed fuse box.

Advantages

- Covers almost all the range of blade fuses.
- High quality products.

FASTENERS

HEAT-SHRINKING HOSES, THIN-WALLED

Application:

- The inside diameter of the heat-shrinking hose should always be chosen so that the diameter is only slightly smaller after free shrinking than that of the part to be shrunk around (ca. 10-15 %).
- Ensure smooth cut edges when cutting the heat-shrinking hose to length.
- Shrink the heat-shrinking hose from the centre outward with a heating device (e.g. hot-air blower Art. No. 0702 203 0).
- Observe the optimum shrinking temperature (see tables). It is important for a short shrinking time. Würth heat-shrinking hoses shrink so quickly that the part to be shrunk

around only heats up very slightly.

- With heat-shrinking hoses with internal adhesive, the melting inner layer can escape slightly at the ends.

HEAT-SHRINKING HOSES, BLACK



Heat-shrinking hose 2:1, black, without internal adhesive

- High-performance, flexible multi-purpose heat-shrinking hose.
- Flame-retardant.
- Good electrical, chemical and physical properties.

Type	Inside dia. in mm	Dimensions after complete shrinkage		Art. No.	P. Qty. L = 100 mm
		Inside dia. in mm	Wall thickness approx. mm		
2,4 / 1,2	2,4	1,2	0,43	0771 002 40	50
3,2 / 1,6	3,2	1,6	0,43	0771 003 20	
4,8 / 2,4	4,8	2,4	0,43	0771 004 80	
6,4 / 3,2	6,4	3,2	0,56	0771 006 40	
9,5 / 4,8	9,5	4,8	0,56	0771 009 50	25
12,7 / 6,4	12,7	6,4	0,56	0771 012 70	
19,0 / 9,5	19,0	9,5	0,69	0771 019 00	
25,4 / 12,7	25,4	12,7	0,76	0771 025 40	

Technical Data:	
Shrinking rate	2:1
Temperature range	-55°C to +135°C
Shrinking temperature	> +90°C
Change in length after shrinking	approx. ± 10%
Dielectric strength	20 kV/mm
Certifications	UL 224

Assortment

8 dimensions per 100 mm length
= 130 pieces



Art. No. 0964 771 0

P. Qty. 1

Contents: Shrinkage rate 2:1 without internal adhesive			
Inside dia. before shr. in mm	Inside dia. after shr. in mm	Art. No.	No. in pcs.
2,4	1,2	0771 002 40	20
3,2	1,6	0771 003 20	
4,8	2,4	0771 004 80	
6,4	3,2	0771 006 40	
9,5	4,8	0771 009 50	
12,7	6,4	0771 012 70	10
19,0	9,5	0771 019 00	
25,4	12,7	0771 025 40	

HOSE CLAMPS



CHROM-VI-FREI
ROHS-KONFORM

Fig. 1



Technical Data

Material of strap/body	1.4016 stainless steel F1
Material of screw	galvanized steel, passivated, sealed
Screw type	Phillips head
Strap widths	7.5 mm/9 mm/12 mm
Size	strap width 7.5 mm = 6 mm
	strap width 9/12 mm = 7 mm

Delivery overview

Strap Width 7.5/9 mm

Strap width in mm	Clamping range in mm	Art. No.	P. Qty.	P. set
7.5	8 - 12	0539 8 12	50/100	-
	10 - 16	0539 10 16		-
9	8 - 16	0539 18 16	50/100	20
	12 - 22	0539 112 22		10
	16 - 27	0539 116 27		20
	20 - 32	0539 120 32		10
	25 - 40	0539 125 40		-
	30 - 45	0539 130 45		25/50
	32 - 50	0539 132 50		
	40 - 60	0539 140 60		
	50 - 70	0539 150 70		
	60 - 80	0539 160 80		
	70 - 90	0539 170 90		
	80 - 100	0539 180 100	25	-
	90 - 110	0539 190 110		
	100 - 120	0539 110 120		

With asymmetrical buckle.

Application:

- Fuel line systems
- Lines carrying air
- Cooling water /heating
- General retainer /fastener

Advantage:

- Asymmetrical body :
 - Even distribution of force
 - Clamp head does not tilt away during tightening
 - General retainer /fastener
- Smooth /intended strap interior,
- Rounded edges
- Prevents injury and hose damage

Strap Width 12 mm

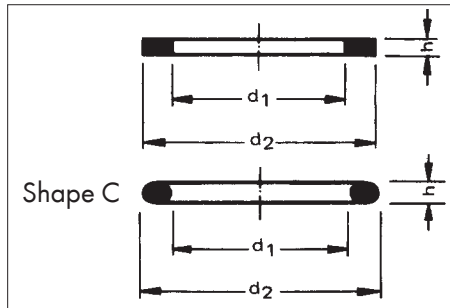
Strap width in mm	Clamping range in mm	Art. No.	P. Qty.	P. set
12	16 - 27	0549 216 27	50/100	10
	20 - 32	0549 220 32		
	25 - 40	0549 225 40		
	35 - 50	0549 235 50	50	
	40 - 60	0549 240 60	25	
	50 - 70	0549 250 70		
	60 - 80	0549 260 80		
	70 - 90	0549 270 90		
	80 - 100	0549 280 100	20	
	90 - 110	0549 290 110		
	100 - 120	0549 200 120		
	110 - 130	0549 210 130	10	
	120 - 140	0549 220 140	5	
	130 - 150	0549 230 150		
	140 - 160	0549 240 160		

SEALING RINGS



Generally, all rings in accordance with DIN 7603 are flat seals on resting surfaces. They are used for sealing on static pipe screw joints. The material from which the sealing rings should be made depends mainly on the media found in the pipeline.

Copper and aluminum rings can be used anywhere (except in the presence of some strong acids) due to their corrosion resistance.



Vulcanized fiber, on the other hand, is resistant to mineral oils, greases and weak acids, alcohol, ketones, esters and chlorinated hydrocarbons and displays poor electrical conductivity (good insulation). Its preferred use is in all water lines and water pipes.

When using the sealing rings, note that the inner and outer diameter dimensions are specified. In case of bottlenecks, the inner diameter is decisive.

DIN 7603

Solid copper, shape A = flat seal, heat-resistant up to +300 °C

Copper filling seal, asbestos-free, shape C = filling seal, heat-resistant up to +300 °C

Aluminum, shape A, heat-resistant up to +200 °C

Vulcanized fiber, shape A, heat-resistant up to +120 °C

Special designs, copper twin rings, brake rings (brass or iron with rubber inlay), plastic rings

Product ranges



DIN 7603, solid copper, shape A, 18 dim.
from 6x10 to 32x38 mm = 1,140 parts
Art. No. 0964 460

DIN 7603, solid aluminum, shape A, 18 dim.
from 6 x 10 to 30 x 36 mm = 525 parts
Art. No. 0964 463

Specially for oil drain screws of the vehicle makes BMW, DB, Citroën, Ford, Opel, Peugeot, Renault and VW/Audi = 575 parts
Art. No. 0964 462

DIN 7603, vulcanized fiber, shape A, 18 dim.
from 5x9 to 30x36 mm = 1,170 parts
Art. No. 0964 465

Metal boxes with plastic inlay

Nominal size in mm	Shape A, solid copper h=2		Shape A, solid copper		Shape C, copper filler seals, asbestos-free		Shape A, aluminum		Shape A, vulcanized fiber	
	Art. No.	P. Qty.	Art. No.	P. Qty.	Art. No.	P. Qty.	Art. No.	P. Qty.	Art. No.	P. Qty.
4 x 8			0460 4 8	100					0465 4 8	100
5 x 9			0460 5 9	100	*0462 05 9	100	0463 5 9	100	0465 5 9	100
6 x 10			0460 6 10	100/300	0462 06 10	100	0463 6 10	100	0465 6 10	100/300/500
6 x 12			0460 6 12	50/100	0462 06 12	100	0463 6 12	100	0465 6 12	100
8 x 11.5			*0460 8 115	100						
8 x 12	0460 8 122	50	0460 8 12	50/100/300	0462 08 12	100	0463 8 12	100/500	0465 8 12	100
8 x 13			0460 8 13	100						
8 x 14	0460 8 142	50	0460 8 14	50/100/300	0462 08 14	100	0463 8 14	100	0465 8 14	100
10 x 12			0460 10 12	100						
10 x 13.5			*0460 10 135	500						
10 x 14	0460 10 142	50	0460 10 14	100/300	0462 010 14	100	0463 10 14	100/500	0465 10 14	100
10 x 15			*0460 10 15	100						
10 x 16	0460 10 162	50	0460 10 16	100/300	0462 010 16	100	0463 10 16	100/500	0465 10 16	100
10 x 18	0460 10 182	50	0460 10 18	100						
12 x 15.5			*0460 12 155	100						
12 x 16	0460 12 162	50	0460 12 16	100/300	0462 012 16	100	0463 12 16	100/500	0465 12 16	100
12 x 17			0460 12 17							
12 x 18	0460 12 182	50	0460 12 18	100/300	0462 012 18	100	0463 12 18	100/500	0465 12 18	100
12 x 19							0463 12 19	100	0465 122 19	100/500
13 x 18	0460 13 182	50	0460 13 18	100/300						
14 x 18	0460 14 182	50	0460 14 18	100/300	0462 014 18	100	0463 14 18	100/500	0465 14 18	100
14 x 20	0460 14 202	50	0462 014 20	100/300	0462 014 20	100	0463 14 20	100/500	0465 14 20	100
14 x 22			0460 14 22	100/300	0462 014 22	100	0463 14 22	100		
14 x 24	0460 14 242	50					0463 14 24	100	0465 142 24	100
15 x 20			0460 15 20	100						
16 x 20			0460 16 20	100/300	0462 016 20	100	0463 16 20	100	0465 16 20	50
16 x 22	0460 16 222	50	0460 16 22	100/300	0462 016 22	50	0463 16 22	100	0465 16 22	100
16 x 24			0460 16 24	100						
17 x 21			0460 17 21	100						
17 x 23			0460 17 23	50/100						
18 x 22			0460 18 22	50/100	0462 018 22	50	0463 18 22	50/100	0465 18 22	50
18 x 24			0460 18 24	50/100	0462 018 24	50/100	0463 18 24	50/100	0465 18 24	50/100
20 x 24			0460 20 24	50/100	0462 020 24	50	0463 20 24	50	0465 20 24	100
20 x 26			0460 20 26	50/100	0462 020 26	50	0463 20 26	50/100	0465 20 26	100
21 x 26			0460 21 26	50/100						
21 x 28			0460 21 28	50/100						
22 x 27			0460 22 27	50/100	0462 022 27	50	0463 22 27	50/100/500	0465 22 27	100
22 x 29			0460 22 29	50/100	0462 022 29	50	0463 22 29	50	0465 22 29	100
23 x 28			*0460 23 28	100						
24 x 29			0460 24 29	50						
24 x 30			0460 24 30	50/100	0462 024 30	50	0463 24 30	50/100	0465 24 30	100
24 x 32			0460 24 32	50/100	0462 024 32	50	0463 24 32	50		
25 x 30			*0460 25 30	100						
26 x 32			0460 26 32	50/100	0462 026 32	50	0463 26 32	50/100	0465 26 32	100
26 x 34			0460 26 34	50/100	0462 026 34	50			*0465 27 32	100
27 x 32			0460 27 32	50/100						
28 x 33			*0460 28 33	100						
28 x 34			0460 28 34	50/100	0462 028 34	50			0465 28 34	100
30 x 36			0460 30 36	25	0462 030 36	100	0463 30 36	50/100	0465 30 36	100
30 x 38			0460 30 38	25	0462 030 38	50				
32 x 38			0460 32 38	25	0462 032 38	50	0463 32 38	50		
33 x 39			0460 33 39	25			0463 32 39	100		
33 x 41			0460 33 41	25						
35 x 41			0460 35 41	25	0462 035 41	50				
36 x 42			0460 36 42	25						
38 x 44			0460 38 44	25	0462 038 44	50				
40 x 47			0460 40 47	25						
42 x 49			0460 42 49	25						
42 x 51			*0460 42 51	25						
45 x 52			0460 45 52	25			0463 45 52	50/100		
48 x 55			0460 48 55	25	0462 048 55	50				
60 x 68			*0460 60 68	25						
64 x 72			*0460 64 72	25						

* Dimensions not kept in stock

CABLE TIES WITH PLASTIC TONGUE



Width mm	Length mm	Bundling Ø mm	Art. No. neutral	Art. No. black	Pack Qty.
2.5	100	1.6 - 20	0502 11	0502 111 *	100/1000
3.6	140	1.6 - 30	0502 12	0502 121 *	100/1000
3.5	200	1.6 - 40	0502 13	0502 131	100/1000
3.6	280	1.6 - 75	0502 135	0502 135 1	100/ 500
4.8	178	1.6 - 40	0502 14	0502 141 *	100/1000
4.8	280	1.6 - 75	0502 15	0502 151 *	100
4.8	360	1.6 - 100	0502 16	0502 161 *	100
7.8	180	1.6 - 40	0502 17	0502 171	100
7.8	360	1.6 - 100	0502 18	0502 181	100
7.8	540	25 - 150	0502 19	0502 190 1	100
7.8	750	40 - 220	0502 181 31	0502 181 3	100
12.5	720	48 - 220	0502 201	0502 201 1	50
12.5	1000	48 - 300	0502 202	0502 202 2	50

For quick, problem-free and reliable bundling of cables, cable harnesses, hoses etc

Plastic tongue, no sharp edges, high retaining strength

Temperature stability:
-40°C to +85°C

Material: Polyamide 6.6

Halogen and silicone-free

- Easy insertion of the cable tie into the eye due to the raised tip.
- Absolutely secure lock.
- Long service life.
- Particularly tough in cold weather, does not become brittle or porous at low temperatures.
- Resistant to oils, grease, fuels, and many other organic materials.
- Caution in case of strongly mineral acids and /or oxidizing chemicals, especially at high temperatures.

Neutral : For indoor use

Black: UV and weather stabilized. Due to carbon additive the effect of UV radiation on the material is slowed down.

Areas of application:

- Switch cabinets
- Installation
- Automotive
- Automobile workshops
- Industrial workshops
- Industrial construction

GENERAL MAINTENANCE

BRAKE CLEANER



For cleaning and degreasing during maintenance and repair work.

Fast flash-off behavior and excellent cleaning performance.

- Fast, effective removal of soot, grease, brake dust and oily residues.
- Cleans without leaving residue.

Acetone free

High material compatibility with paints, plastics, seals and rubber.

AOX-free and silicone-free.

Designation /Container	Contents	Art.	P.Qty
Spray can	500 ml	0890 108 7	24
Canister	5 L	0890 108 715	
Canister	20 L	0890 108 716	1
Barrel	60 L	0890 108 760	

REFILLO /REFILLOmat			
Designation /Container	Contents	Art.	P. Qty.
REFILLOmat	-	0961 891 011	1
REFILLOmat can	400 ml	0891 881 1	
REFILLOmat canister	20 L	0890 108 720	
REFILLO can	400 ml	0891 800 1	
REFILLO station	-	0891 800	
ORSY1 Attachment for 60 L barrel	-	0961 891 002	

Areas of application:

For the quick removal of oily/greasy residues, soot, brake dust on vehicles, disk and drum brakes, engine and transmission housings etc.

NOTES:

Do not spray on hot parts.

Compatibility with rubber, plastic parts and painted surfaces should be checked on a non-visible area before applying.



Art. No. 0891 870 76

P. qty. 1



Art. No. 0891 870 77

P. qty. 6

Additional articles:

Tap for

5 l canister Art. No. 0891 302 01

20 l canister Art. No. 0891 302 03

60 l barrel Art. No. 0891 302 07

Pump Spray Bottle
for brake cleaner, empty
Art. No. 0891 501 715

This information is only a recommendation based on our experience. Test in an inconspicuous area when using on metal surfaces. Preliminary testing required! For further information, see the technical information leaflet.

PARTS CLEANER



For cleaning and degreasing during maintenance and repair work.

- Easy removal of adhesive residues, labels and adhesive tapes.
- Stubborn dirt such as wax, rubber abrasion, silicone residues, permanent marker, oil and grease are loosened.

Gentle on materials

- Sensitive surfaces such as aluminium, brass and stainless steel are not attacked.

User-friendly

- No unpleasant odours for users and the environment.
- Fast and effective cleaning.

Acetone-free

Silicone- and AOX-free

Designation	Contents	Art. no.	P /Qty.
Parts Cleaner	300 mL	10890 10802	24

Applications:

Cleans machine parts, plastic parts and metallic surfaces of adhesive residues. Also suitable for removing protective preservatives e.g. on brake discs.

NOTE:

Prior to treatment, check rubber and plastic parts for compatibility in an invisible location. Paints may be attacked.

RADIATOR CLEANER AND CONDITIONER



Application:

For remedying reduced cooling performance when making repairs to radiators and cooling system maintenance work. Add contents of can to the cooling water. Open heating valves. Allow engine to run for approx. 30 min at operating temperature. The deposits which were loosened by the Radiator Cleaner and Conditioner must be rinsed out with water. The rinsing process is carried out without removal of the thermostat. We recommend replacing parts which have been damaged by leaked-in oil, such as compensating reservoirs and water

hoses. After cleaning the cooling system, refill it, vent it and check it for leaks. 250 mL are sufficient for 10 liters of cooling water. 1,000 mL are sufficient for 40 liters of cooling water.

Features:

Removes deposits in the cooling circuit and cleans the cooling system of contaminants. Thus oil residue which has arisen due to cylinder head damage, for example, can be removed. Radiator Cleaner and Conditioner can also be used as a preventive measure each time the coolant is changed. The cleaner is not suitable for use during vehicle operation.

Suitable for all engines.

Eliminates corrosion and sludge deposits in the cooling circuit

Cleaned cooling system increases operating reliability

Neutralizes lime residue

New coolant is protected from contamination by old dirt residue

Compatible with anti-freeze

Alkaline in the range of 9 – 11

Compatible with all substances used in radiator construction.

Contents	Art. No.	P. Qty.
250 mL	5861 510 250	1/12
1,000 mL	5861 510 001	1/12

RADIATOR COOLANT



Protect the cooling system from boiling, and ensures effective antirusting.

Prevents scale forming and vanishes foam in the cooling system.

- Prevent corrosion and good compatibility to rubber and sealing material.
- Protects the cooling systems including aluminium, iron, steel, brass, copper etc from corrosion.

Art.	Content	Colour
10892001117	1 L	Red
10892001018	5 L	Red
10892001018G	5 L	Green

RADIATOR TREATMENT



A water based rust inhibitor.

Ready-to-use inhibitor without glycol content, recommended for use in wide variety of cooling systems in automotive vehicles, and industrial engines.

Protects the cooling systems including aluminium, iron, steel, brass, copper etc from corrosion, with low aquatic toxicity and no long-term effect to the environment.

Carboxylate based inhibitors which not contain inorganic inhibitors.

Provides a corrosion protection by chemically interacting with the surface.

Art.	Content	Colour
10892 000 019	200 L	Red

DIESEL ADDITIVE



Application:

Add contents of can to the fuel tank after all repairs to the injection system and in the engine area have been carried out. 300 mL are sufficient for 30 to 40 liters of diesel fuel.

Features:

Loosens and removes deposits, especially in the injection pump and injection nozzle micro-area. Neutralizes and binds acidic condensed water. Prevents rust in the fuel tanks.

For the cleaning of all common car and truck diesel engines.

Cleaning of the injection pump and nozzle

Ensures clean combustion

Neutralizes and binds acidic condensed water

- Protects the fuel system against corrosion
- Cleans and protects from the fuel tank to the combustion chamber

Prevents fuel concentration

Improve the ability of the engine to operate at unusual temperatures.

Environmentally friendly

Reduce soot and harmful substances contained in the exhaust gas.

Contents	Art. No.	P. Qty
300 ml	10893565012	1/24

DIESEL PURGE



Application:

Remove the fuel hose and then immerse the tip into the bottle. Plug the fuel drain hose or immerse it in the bottle. Turn on the engine and let it run at different speeds. When finished, reinstall all components of the fuel system. Repeat the cleaning process if necessary.

Features:

Cleaning the combustion system, injection system and combustion chamber so as to optimize fuel consumption. Enhance emission levels.

Improves the effectiveness and efficiency of combustion. Can be used for diesel-engined cars and trucks in general.

Clean the injection system

- Eliminates deposits on injection nozzle and combustion chamber.
- Ensure clean and efficient combustion.
- Optimize emission test scores.

Prevents corrosion

Protect the entire fuel system.

Increases cetane levels in fuel

- Eliminating knocking caused by poor quality of fuel.

Contents	Art. No.	P. Qty
500 ml	10894556013	1/24

ENGINE FLUSH



For cleaning all gasolines and diesel engines.

Cleans the engine

Full performance is enabled

Optimizes exhaust emissions

Simple to use

Isi	Art. No.	P. Qty.
300 mL	10893 511 112	1 /24

Application:

Suitable for all mineral- and synthetic based engine oils.

A 300 mL can is sufficient for up to a 5 L oil fill.

Add Engine Flush to the oil when the engine is warm. Run engine idle for about 10 minutes. Then carry out an oil and filter change.

Attention: Not suitable for use in motorcycles with wet clutches which have a common oil circuit.

Features:

Engine Flush cleans the engine and the oil feed system from the inside.

Engines which have been cleaned of dirt can now reach their fullest performance potential with fresh oil.

Quick, yet gentle, cleaning.

Does not attack seals. Suitable for gasoline and diesel engines. Optimizes exhaust emissions. Compatible with catalytic converters. Loosens stuck piston rings. Easy to use.

INJECTION CLEANING SYSTEM



Application:

Turn on the engine until its normal /warm temperature, then turn it off. Remove the vacuum hose, then turn the car back on. Run the engine at about 2,000 rpm rotation, then spray the contents of the tube into the throttle body for a few seconds while keeping the engine spin off so that it does not die during the application. Repeat the application until the machine response is felt to have returned to the best performance.

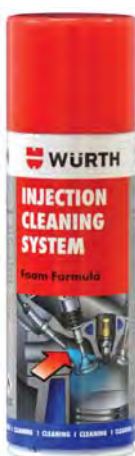
Contents	Art. No.	P. Qty
300 ml	10893100012	1/24

Suitable for gasoline engine and diesel engine in general.

Features:

Suitable for gasoline or diesel engines, with or without catalytic converters and turbo chargers.
Suitable for cleaning metal surfaces from oil, dirt and oil scraps.
Contains rust protector to prevent rust and corrosion on metal surfaces.

INJECTION CLEANING SYSTEM FOAM FORMULA



Application:

Turn the engine on to normal vehicle temperature, then turn it off again. Remove the air filter. Spray the entire contents of the bottle into the intake valve, then let stand for 5 to 10 minutes to dry. Turn the engine back to remove the remaining carbon sinks. Can also be applied to clean spark plugs and spark plug hole.

Contents	Art. No.	P. Qty
250 ml	10893101011	1/24

Suitable for all gasoline and diesel engine.

Features:

Removes the carbon deposit from the combustion system, injection valve and combustion chamber. Reinstates combustion and restores vehicle engine performance. Optimize fuel consumption. Enhance emission levels.

INJECTION CLEANER



Content	Art	P.Qty
300 mL	10893560012	24

Application:

Add contents of can to the fuel tank. 300 mL are sufficient for 50 liters of fuel. Can also be used after each inspection as a preventive measure. For all carburetor and gasoline-injection engines with and without catalytic converters.

Features:

The cleaner removes resin and paint type deposits at the injection valve and at the fuel quantity distributor micro area. Binds and neutralizes acidic condensed water.

Special cleaner for cleaning the injection system.

For all spark-ignition engines, including vehicles run on unleaded fuel.

Binds and neutralizes acid and condensation.

Preventing corrosion.

Cleans and protects all petrol injection system.

Loosens and removes deposits in the fuel injectors.

Guaranteeing precise control.

Keeps inlet valves clean.

INJECTION & COMBUSTION CHAMBER CLEANER



Application:

Apply using Injector Cleaning Toolset. Pour the product into the Injector Cleaner Tool tank. Remove the inlet pipe and re-pipe the fuel, and connect it to the Injector Cleaner Tool. Perform the application in accordance with the instructions of the toolset.

Features:

To clean the combustion chamber and injection system on vehicle engines. Removes the carbon deposits caused by poor fuel quality. Recommended to be applied every 5,000 - 10,000 kilometers.

Clean the combustion chamber in a quick, easy and effective way.

Cleans the combustion chamber in the engine

Cleaning injectors and combustion chamber from carbon deposits resulting from inefficient combustion and poor fuel quality.

Restores engine performance

- Combustion efficiency as a result of clean injectors and combustion chamber.
- Optimizes engine performance.

Increases fuel efficiency and reduce the emission.

Quick, easy, and effective

Application takes only 15 - 30 minutes..

NOTE:

This product is not a fuel additive. Do not pour this product into gas tank.

Variant	Content	Art.	P.Qty
Petrol	300 ml	10894555012	24
Diesel	300 ml	10894556012	24
Motorcycle	300 ml	10894551012	24

BATTERY TERMINAL PROTECTOR



Contents in mL	Art. No.	P. Qty.
150	0890 104	12

Application:

Shake can before using. Thoroughly clean and mount battery terminals, terminal clamps etc. and spray a thin coat on all sides.

NOTE:

Do not spray on paint! Remove residue on the paint immediately with brake cleaner, as otherwise spots could appear.

Long-lasting, temperature-resistant protection for battery terminals.

Blue, long-lasting, temperature-resistant film protects battery terminals, terminal clamps and plug connections from corrosion, weather and battery acids.

Prevents transfer resistances and voltage drops, thus extending battery life.

BATTERY TERMINAL GREASE



Contents in mL	Art. No.	P. Qty.
100	0890 104 1	1/10

Application:

Clean battery terminal thoroughly with mechanical means, then apply battery terminal grease and spread around.

Highly adhesive, water-resistant red paste protects battery terminals and clamps from oxidation for extended periods.

CU 800 - COPPER PASTE



Adhesive copper paste for lubricating, releasing and corrosion-protection.

Resistant to high temperatures and pressures.

- High durability to water, alkaline solutions and acids
- High and durable lubricating effect
- Provides long-term protection against burning-on and seizing, cold welding, wear, corrosion and frictional corrosion
- Free of silicone

Areas of Application:

Brakes: Back sides of brake pads (prevents squeaking), fastening and individual parts.

Battery terminals: Contact protection, nozzles of arc welding torches (prevents formation of welding beads).

Seals: Prevents baking on of solid seals

Other: Screw connections (exhaust manifold screws, spark plug threads, aso.), bearings, pivotal points, sliding surfaces, aso.

Application:

Clean the surface with brake cleaner Art.No. 08901087 (The parts have to be clean, dust-dry and free of grease). Apply CU 800 thinly and evenly.

Advice:

Do not coat the front side of brake disks or brake pads with CU 800!

Technical Data

Ignition temperature	285°C
Boiling point / boiling range	-44°C
Vapor pressure	ca. 2100 hPa at 20°C
Water solubility	Unsoluble
Range of use (temperature)	-20°C till +1200°C (Paste)
	-40°C till +1200°C (Spray)
Processing temperature	+0°C till + 40°C

Designation	Content	Art.	P. qty.
Tube	100 ml	08938001	1
Aerosol Can	300 ml	0893800	1

ROST OFF PLUS



For loosening extremely rusty and oxidised screw connections on passenger cars, lorries, agricultural and construction machinery, equipment and devices.

Application:

Spray the parts to be treated and allow to take effect briefly. In case of stubborn connections, repeat application and extend penetration time if necessary.

Designation /Container	Content	Art.	P.Qty
Aerosol Can	300 ml	0890 108 7	24
Canister	5 L	0890 108 715	1
Canister	20 L	0890 108 716	

High-quality rust remover with additional lubricating properties.

High capillary activity

Optimum creeping properties ensure outstanding rust penetration and extensive rust removal.

Contains liquid, highly effective organic molybdenum compound OMC2

- In contrast to products that contain solid lubricants, e.g. MOS₂, OMC2 does not precipitate out in larger containers.
- Friction is reduced.
- Excellent lubricating effect by smoothing the metal surface.
- Ensures permanent smooth running of connections.

Optimum corrosion protection due to addition of corrosion-protection additives

Provides lasting protection against further corrosion.

Resin and acid-free. Silicone-free.

Compatible with rubber and plastic.

RUST OFF CRAFTY



Description	Cont.	Art. No.	P. Qty.
Aerosol can	300 ml	0893 130	1/12

Areas of application:

For loosening extremely rusty and oxidised screw and joint connections on machines, equipment and devices, preferably in the food processing and beverage industry.

Application:

Spray parts to be treated and allow to penetrate. In case of stubborn connections, repeat application and extend penetration time if necessary.

Technical Data

Chemical basis	Medicinal white oil with synthetic oils
Colour	Light-yellow transparent
Density at 20°C (active substance)	7.74 g/ml
Temperature range	-10°C to 140°C
Flash point of active substance	200°C
Base oil viscosity at 40°C	35 mm²/s

Synthetic, biodegradable high-performance rust remover with food registration (NSF - H2 & HACCP SSZ).

Contains synthetic oil.

- Optimum creeping and lubricating effect.
- Biodegradable.

Extreme capillary activity.

- Outstanding creep properties ensure extremely fast penetration of rust and corrosion.
- The optimum effect begins shortly after spraying on.

NSF-H2 registered.

- Can be used in areas in which food is processed or stored.
- However, direct contact of product with food must be prevented.

Excellent material compatibility.

In contrast to many conventional rust removers, does not attack rubber or plastic.

Optimum corrosion protection thanks to corrosion protection additives.

Resin and acid-free.

Silicone-free.

NSF = Internationally recognized organization for the supervision and registration of products used in the food sector.



NSF H2 registered, (No: 124180) corresponds to the requirements of H1, 1998.



HACCP SSZ
Certified: PE-717-WA-01.

PERFECT METAL SURFACE SPRAYS



Areas of application:

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

NOTE:

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 Light PERFECT		400	0893 114 113	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.

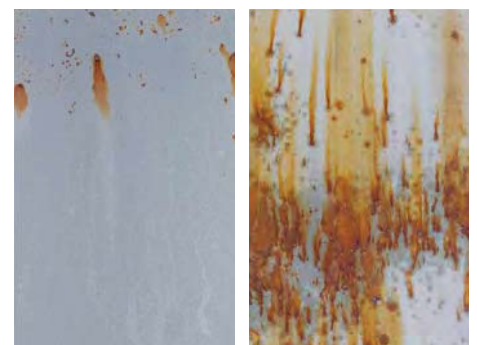
Additional advantages of zinc spray and zinc spray light:

Tested corrosion protection according to German DIN for 250 hours

- 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

SPRAY GREASE



Content	Art. No.	P. Qty.
300	10893 106 012	1/24

Fields of application:

Suitable for universal lubrication tasks and for high-pressure loads, e.g. shift, gas and clutch rods, Bowden cables, hinges, reversing levers and lots more.

Spray semi-synthetic oil

Versatile lubricating oil thanks to its balanced and harmonized properties

Good penetrating properties

- Very good lubricating properties with tight tolerances
- Reliably protects against corrosion as a result

Actively adhesive

Turning and rotating parts do not throw off adhesive.

Resistant to sprayed water and saltwater, weak acids and bases

Silicone-, resin- and acid-free

Color: yellowish

LUBRICATING GREASE WGF-130



Content	Art. No.	P. Qty.
1,000 g	0893 530	1/6

Thermally stable

from -30°C to $+130^{\circ}\text{C}$, briefly up to $+150^{\circ}\text{C}$.

Colour: black.

Consistency as per NLGI: 2.

High-performance grease for lubricating.

- Plain and anti-friction bearings of all kinds (e.g. wheel bearings),
- Guides,
- Joints,
- Splined shafts,
- Threaded spindles and bearings with extremely high surface pressures or impact loading.
- Lithium soap grease with molybdenum sulfide (MoS).
- Forms a solid lubricating film on the running surfaces from the grease itself under load.
- Significantly improves run-in conditions. Ensures additional emergency running lubrication.
- Reduces friction and prevents excessive wearing.
- Extends lubricating period.
- Protects against corrosion.
- Waterproof.

V-BELT SPRAY



High-performance grease for lubricating.

- Prevents slipping, transfers full working output, eliminates squeaking.
- Eliminates readjustment work with minor belt slip due to cold, moisture or due to normal elongation.
- AOX-free.

Application:

Fit spray head and spray along belt with spray tube close to inside of belt. Or spray on inside point with engine running for approx. 5 seconds. Clean running surfaces before initial use.

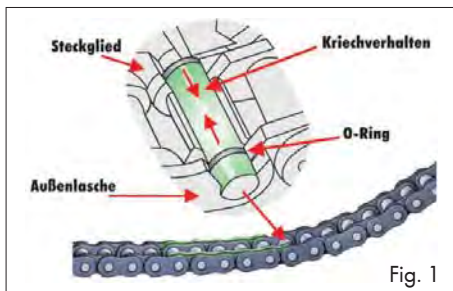
HHS® DRYLUBE



Content in ml	Art. No.	P. Qty.
400	0893 106 6	1/12

Fields of application:

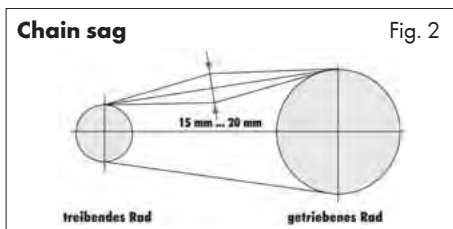
Suitable for lubricating rapidly turning elements, e.g. chains and machine parts, wire cables, motor-cycle chains, etc.



This product is not subject to the viscosity classification. Shortly after spraying on, the product forms a highly effective wax-based dry lubricating film, ensuring optimum corrosion protection.

Creep and gap-penetration behavior

Due to the unusually good creep capacity, the mixture of active ingredients and solvents penetrates into the smallest spaces, ensuring an optimum wear protection. In the process, a highly effective, shear-resistant dry lubricating film with PTFE forms on the surface. O and X-rings are protected and remain elastic.



Maintenance information from pro to pro

The chains should be checked and lubricated at certain time intervals. In this case, it is important to ensure the correct chain tension. The sag (see Fig. 2) should be approximately 15 mm to 20 mm upward and downward with the wheel loaded. Both a chain which is too taut and excessive sag are harmful.

Highly shear-resistant dry-synthetic wax with PTFE.

Dry-synthetic wax

- Lubricant does not spin off rapidly turning and rotating parts
- Low dirt adhesion
- Outstanding corrosion protection

Unusually good creeping capacity and gap-penetrating behavior (Fig. 1)

- Lubrication of hard-to-reach areas
- Creeps into smallest spaces
- Protects against "sag" (see Fig. 2)

With solid lubricant content – PTFE

Good emergency-running property and temperature resistance

Excellent material compatibility

- Protects and preserves O and X-rings
- Compatible with plastic
- Does not harm painted surfaces.

Resistant to sprayed water and saltwater, weak acids and bases

Silicone-, resin- and acid-free

Temperature range:

–30° C to +100° C

Temporarily: +180° C

Color: yellowish

Additional articles:

HHS® Clean

Art. No. 0893 106 10

DOS FAST-ACTING CYANOACRYLATE CONSTRUCTION ADHESIVE

Patented special cap

- Trouble-free one-handed use.
- Precise dosing.
- The tip does not clog.

Bonds in seconds

- Immediate further processing possible.
- Fast repairs.
- Simple designs without additional fastening materials possible.
- Increased temperature usually not necessary.

Solvent-free

NOTE:

It is advisable to wear safety gloves and goggles.

Additional articles:

Nitrile Disposable Glove
Art. No. 0899 470 03

"Comfort" Assembly Glove
Art. No. 0899 400 6..

Polycarbonate Outer Goggles
Art. No. 0899 102 0

SUPER FAST GLUE



Contents	Art. No.	P. Qty.
5 g	0893 090 0	1/25
20 g	0893 09	1
50 g	0893 090	1

For the adhesion of metal, plastic, and rubber parts with and to each other.

MAINTENANCE OIL MULTI



Rust dissolver

Outstanding creeping properties ensure rapid penetration of rust and corrosion.

Lubricant

Excellent lubricating properties. Eliminates creaking and squeaking noises. Reduces friction and wear.

Cleaner

Good cleaning performance guaranteed by infiltration of dirt, grease and oil residues.

Corrosion protection

Optimal adhesion properties on metals. A thin viscous protective film prevents moisture even over micro surface irregularities and thus effectively protects against rust and corrosion.

Contact spray

Water and moisture-displacing properties and outstanding creeping properties enhance electrical conductivity and eliminate leakage current.

Versatile multi-functional spray for a range of applications.

Designation	Aerosol can
Content	400 ml
Art.	089305540

Lubricates, cleans and maintains

- Lubricates locks, hinges, bushings, chains, door locks
- Stops creaking and squeaking and restores sliding properties of seized and jammed parts
- Cleans and maintains plastic and metal parts such as e.g. panelling and housing

Removes rust and protects against corrosion

- Loosens rusted bolts, pipe fittings, screws, nuts, joints, Bowden cables, shafts, locks etc.
- Infiltrates and displaces moisture around electronics and electrics
- Prevents corrosion on metals and electrical components, cable connections, relays, plugs, couplings etc.
- Prevents freezing up of lock cylinders and closures

Resin, acid and silicone-free

Does not attack rubber, paint or plastics

Technical Information	
Chemical basis	Mineral oil
Colour	Light yellow transparent
Min./max. processing temperature for can	-10 to 40 °C
Min./max. temperature conditions	-30 to 130 °C
Min. temperature conditions	-30 °C
Max. temperature conditions	130 °C
Min. flashing point	-80 °C
Silicone-frees	Yes
Acid-free	Yes
Resin-free	Yes
AOX-free	Yes
White oil-free/mineral oil-free	No
VOC concentration (CH)	76.57 g/l
Kinematic oil basis viscosity	30 cSt

INTERIOR & EXTERIOR

INTERIOR CLEANER



NOTE:

Do not spray directly onto sensitive surfaces. Spray interior cleaner into a clean cloth and wipe off surfaces to be cleaned. Do not use on hot surfaces or in direct sunlight.

Application:

For optimum foaming, shake can well before use.

Areas of applications:

Dashboards, vehicle headliners, door trim panels, seat upholstery, back side of seat backrests, sun vizors and console.

Special cleaning foam with anti-static additive for the entire vehicle interior.

Cleans all painted and plastic parts, glass surfaces and upholstery of nicotine, dirt and dust!

Interior cleaning in one work step!

Thanks to the anti-static additive, provides temporary dust protection on the surface.

Longer-lasting cleanliness in the vehicle interior.

**eff
No running off on vertical surfaces, i.e. the material remains where it is take effect.**

Saves materials due to minimized flow off.

Reliably dissolves dirt with intensive penetration.

Saves time, as multiple rewiping becomes unnecessary.

Visible, white foam.

Saves time and materials, as each area is only sprayed once.

Always a pleasant, fresh odor in the interior. Scent: Peach.

Eliminates unpleasant nicotine odor in your cab.

Silicone-free.

Contents in ml	Art. No.	P. Qty.
300	10893 033	1/24

RAPID WINDSCREEN CLEANER

Small container so you can measure out what you need for your tank size.

Highly concentrated windscreen cleaner 1:100

Contains special cleaning substance

- Prevents smear formation
- Eliminates glare and lubricant films
- Ensures a crystal clear view
- Removes adherent insects and other soiling

Very good material compatibility

- Does not attack polycarbonate glass
- Gentle on paint and rubber



Art. No.	0892 333
P. Qty.	25/100
Contents	32 ml
Ratio of ingredients	32 ml is sufficient for 2,5 - 3 l washing liquid
Container	Plastic bottle in a display box
Chemical basis	Anionic tenside
Smell/fragrance	Peach
Colour	Orange
pH value	6-7
Shelf life from production	24 Month

NOTE:

Add rapid windscreen cleaner to windscreen wash according to wash water volume.

SILICONE SPRAY



Ensures long-lasting protection, preservation and insulation of vehicle exterior and interior plastic, rubber and metal parts; good lubricating properties.

- Gives plastic parts (e.g. bumpers, radiator grilles, spoilers, protective strips, vinyl car roofs etc.) a high-gloss finish and do not become brittle
- Rubber parts (e.g. door and bonnet seals, rubber bumps, impact strips, radiator hoses, car tyres etc.) are protected, they do not become brittle and do not freeze or stick
- Waterproofs folding roofs and convertible tops
- Anti-static effect (repels dust).
- Protects electrical contacts against moisture
- Sliding roof and seat rails, safety belt rollers etc. run smoothly
- Prevents squeaking and creaking noises between different materials, e.g. metal/plastic etc.
- Serves as an installation aid, e.g. when connecting hoses
- Does not stain

Designation	Contents	Art. no.	PU/qty.
Spray can	500 ml	0893 221	1/12/24
Canister	5 l	0893 221 05	1
Canister	20 l	0893 221 520	
REFILLO spray can	400 ml	0891 800 14	
REFILLOmat spray can	400 ml	0891 881 12	
REFILLO filling station	-	0891 800	
REFILLOmat filling station	-	0891 880	

Tap		
for	Art. no.	PU/
5-litre canister	0891 302 01	1
20-litre canister	0891 302 03	

pH value: 6.3

(in 5 % aqueous solution)

TAR REMOVER



Container	Contents	Art. no.	PU/Qty.
Can	300 ml	0890 26	12
Canister	5 l	0890 26 005	1

Powerful solvent action

Removes stubborn dirt

Emulsifying effect

Easy to rinse off

Areas of application:

Effortlessly removes tar, oil, and splashes of underseal and cavity sealant from paint and chrome.

Application:

Spray on directly or apply to the surface to be treated with a saturated cloth, allow to soak in briefly and remove with a cloth or soft sponge.

TYRE FOAM



Content in ml	Art. No.	P. Qty.
500	0890 121	12



Application:

Spray the foam evenly onto the tire side walls and allow it to dry. It does not have to be wiped off afterwards. Can also be used on wet tires. Pre-clean briefly if tires are very dirty.

NOTE:

Do not spray onto tire running surfaces, brake disks and brake drums. Contains silicone.

High-quality care product for tire side walls.

Cleans, preserves, protects

- Simple application in one step, thereby saving time.
- Does not have to be wiped off afterwards.
- Ideal before putting tires into storage (summer / winter).

Silk matt sheen

- New tire effect
- Improves the vehicle's appearance, making it particularly suitable for display vehicles.

Optimum UV and ozone protection

- Tires do not fade.
- Prevents brittling and cracking caused by age.

Foam

- Economical application.
- Medium does not run off.

Protects against dust and splash water

Solvent-free

Does not attack paint, plastic, rubber and metals.

WINDOW SEALANT



Container	Content	Art. No.	P. Qty.
Pump Spray Bottle	20 mL	0893 012 414	12



Application:

Pre-clean:

Clean any residue off the glass surface to be treated with Active Glass Cleaner. The surfaces to be processed must be dry and free of grease and silicone. We recommend Basic Cleaner S for increasing duration of product effects.

Seal:

- The processing temperature should be between +10 and 40°C at 60% humidity.
- Spray Window Sealant sparingly on the glass surface and polish out with a clean, dry cloth.
- Use remaining contents of container within 24 hours after the first use and then dispose of it.

NOTE:

The sealed window is immediately active. Wait at least one hour before cleaning the vehicle or using a car wash. We recommend wearing gloves during sealing work. Under extreme weather conditions, a droplet film may form on the windshield, which appears to be misting from the outside. It can be removed by switching on the hot-air blower and routing the hot air onto the windshield. We recommend replacing windshield wipers with the Window Sealant. Do not use on plastic, metal or paint. Cleaner and sealant residue must be completely removed from the body. Do not use on hot surfaces. Store frost-free and dry. Do not use abrasive, strongly acidic or strongly alkaline glass cleaners.

ATTENTION:

Not suitable for polycarbonate glass!

Rain-repellent glass sealant for greater driving safety thanks to an improved view and greater service life of the windshield wipers.

Rain and water bead up and roll off the window at approx. 70 – 80 kph.

- Improved vision at night and in the rain
- Greater driving safety
- No dangerous blinding effect during night driving
- Decreased use of windshield wipers

Easier to remove dirt, insects and ice over the long-term

Ultra-thin, hard-as-glass coating

- Depending on use, lasts several months or 5,000 to 10,000 km
- If pre-cleaning is carried out with Basic Cleaner S (Art. 0890 024 6), effects can last up to 20,000 km

Suitable for all untreated glass surfaces on vehicles of all types

Fast and easy to use

- Simplifies pre-cleaning
- Easy to polish out

Silicone- and AOX-free



WINDSCREEN STAIN REMOVER



A premium product for cleaning all type of windscreen and glasses.

Easy to remove and loosen of all stain on the windscreen or glasses and gives a perfect vision.

Not acidic, will not harm paint.

Application:

Shake well before use. Apply to soft cloth onto clean surfaces, and then wipe the blur windscreen or glasses and immediate water rinse before become dry. Clean the entire windscreen with a dry and soft cloth.

Caution:

Do not use under direct sunlight and in warm or hot surface condition.

Contents	Art. No.	P. Qty
250 ml	10893118111	1/24

MULTI-PURPOSE IMPREGNATION SPRAY



Container	Content	Art. No.	P. Qty.
Aerosol can	400 mL	0893 032 100	1/12

Areas of applications:

Fabric convertible covers, awnings, sun umbrellas, tents, backpacks, sports and work clothing and various types of leather (not patent leather or lacquered smooth leather types)

Applications:

1. Take note of processing instructions before using.
2. The fabric must be clean, dry and grease-free.
3. Spray on impregnation spray from a distance of approx. 15 - 20 cm.
4. After treatment, allow it to flash off well and dry fully.

NOTE:

Caution! You must heed the following! Breathing in product can damage your health! Use only outdoors or with good ventilation! Spray for only a few seconds at a time! Large-area leather and cloth items may only be sprayed outdoors and must flash off well! Keep away from children!

Before use, check for compatibility in an inconspicuous spot. Observe the manufacturer's care instructions. Do not use in intense sunlight or on hot surfaces.

Contains solvents, therefore it is not suitable for patent leather or lacquered smooth leather. Before using, carry out pretesting in a non-visible spot to check material compatibility. Sensitive plastics and paints are to be protected by being covered before use. Wipe excess material off adjacent non-cloth surfaces, such as paints, rubbers, door and window seals, PVC and acrylic glass panes.

Makes cloth surfaces water-, oil- and dirt-repellent

Outstanding water-repellence properties

Increased cloth service life

Protects against staining, dirt and oils and greases

Fabric remains soft and air-permeable

Excellent wear-resistance properties

No heat treatment necessary

Free of persistent fluorine compounds (PFOA-, PFOS- and APEO-free)

ENGINE SEALING



User-friendly

No polishing required.
Can also be applied to damp surfaces.

Solvent-free

The vehicle can be started directly after application.

Contains silicone

Freshens up plastic parts and engine components and leaves behind a water and dirt-repellent protective film.

Designation/ Container	Contents L	Art. no.	PU/ Qty.
Canister	5	0893 479 005	1
Canister	20	0893 479 020	1

Areas of applications:

For engines and engine compartments of all kinds of vehicles.

Application:

Apply a thin coating after washing the engine and allow to dry for approx. 20–30 minutes. No polishing required.

WÜRTH AIR-CONDITIONER PRODUCTS AT A GLANCE



Air-Conditioner Leak Detection Dye Assortment (R134a + R1234yf)

Properties:

- Compatible with PAG, POE and ester oils
- Certified as per SAE J2297

Contents	Art. No.	P. Qty.
Assortment of six cartridges of air-conditioner leak detection additive	0964 764 025	1
Air-conditioner leak detection dye cartridge, 7.5 ml	0892 764 010	6



Air-Conditioner Leak Stop Plus(R134a + R1234yf)

Properties:

- Can be mixed with PAG, POE and ester oils
- Contains a UV additive for locating leaks

Contents	Art. No.	P. Qty.
60 ml (bottle)	0892 764 775	1/6
60 ml (can)	0892 764 776	1/6



Electronic Coolant Leak Detector

Properties:

- For the detection of CFC, HFC and HCFC coolant leaks (and mixtures thereof)
- Also suitable for HFO 123YF

Art. No. 0764 000 700

P. Qty. 1



Quick Fresh Silver

Properties:

- Effectively counters unpleasant odors
- Long-lasting effect thanks to KENA® bionics formula with anti-bacterial silver ions
- Long-lasting fresh scent
- AOX- and silicone-free

Contents	Art. No.	P. Qty.
100 ml	0893 764 65	1/12



Air-Conditioner Disinfectant Spray

Properties:

- Prevents allergic reactions triggered by bacteria and microorganisms
- Effectively stops unpleasant odors
- AOX-free

Contents	Art. No.	P. Qty.
300 ml	0893 764 10	1/6



Disinfectant Surface Cleaner

Properties:

- For large-area disinfection and cleaning
- Prevents allergic reactions triggered by bacteria and microorganisms
- Effectively stops unpleasant odors
- Silicone-free
- **Can be used with Application Gun Art. 0891 764 1**



Contents	Art. No.	P. Qty.
5,000 ml	0893 764 05	1

PNEUMATIC TOOLS

KOMBIFIX PNEUMATIC CARTRIDGE GUN



For 310-ml cartridges

- Combined use possible (standard sealants and sprayable seam sealant).
- Automatic reduction of the mains pressure to 6 bar working pressure.
- Stepless fine adjustment.
- The amount of spraying air and material can be regulated independently of each other.
- 2-stage exhaust.
- Material feed via telescopic cylinder, thus making the penetration of the cartridge by compressed air impossible.

Scope of delivery: 10 plastic nozzles for sprayable seam sealant, 1 sleeve nut for sprayable seam sealant, 1 sleeve nut for standard sealants, connecting nipple 1/4".

Art. No. 0891628 6

P. Qty. 1

Accessories



Plastic nozzle for sprayable seam sealant

Art. No. 0891 628,612

P. Qty. 12



Sleeve nut for sprayable seam sealant

Art. No. 0891 628,620

P. Qty. 1

The average consumption for pneumatic application guns is about 7.2 litres/minute. – **Caution:** The maximum working pressure for the processing of sealants is 6 bar.

TOP GUN CLEANING GUN



Innovative technology for less wear, economical consumption of cleaning agents and improved performance.

User-friendly thanks to adjustable pneumatic pressure and flexible connection for improved hose handling.

Scope of delivery	Art. No.	P. Qty.
TOP Gun Cleaning Gun	0891 703 140	1
Sealing Cap for Container	–	
Flexible Pneumatic Connection	0891 700 232	
Double nipple	0699 614 14	5

Areas of application:

Pre-clean the surface with a vacuum cleaner or a brush. Next, fill the container of the TOP Gun with the recommended mix of the cleaning agent to be used and connect the TOP Gun to the compressed air supply (optimum supply: 8 bar). Move the ball valve into the vertical position (ON) and clean the material slowly and evenly in circular movements. For drying, move the ball valve back into the horizontal position (OFF), as a result of which only air still flows out of the cleaning gun. If there is still moisture in the material after this, it can be removed with a cloth.

Application:

Suitable for removing dirt (nicotine staining, footprints, road salt tide marks, dog hairs etc.) from vehicle interiors and exteriors.

Materials to be processed:

Rims, door entrances and door trim panels, ventilation ducts, instrument panels, upholstery and headliners, gear shift boots, fuel tank filler necks, license plates and all hard-to-reach places, including outside the vehicle.

For vehicle care.

Improved technology for better performance

- Ball bearing drive creates a vortex effect
- Air and cleaning agent supply can be manually adjusted
- Dirt is lifted by the resulting suction
- Articulated connection for more flexible handling (optimum for places that are difficult to reach)

Cleans more thoroughly and effectively

- Micro atomization results in effective use of cleaning agent
- Dirt is removed extremely quickly
- For use with many Würth cleaning agents

Additional articles:

R1 Universal Cleaner, 5 liters
Art. No. 0893 125 005

R1 Universal Cleaner, 20 liters
Art. No. 0893 125 020

BMF Cleaner, 5 liters
Art. No. 0893 118 2

BMF Cleaner, 20 liters
Art. No. 0893 118 3

ECO LINE Universal Cleaner, Refill
Art. No. 0890 290 001

This information is only a recommendation, since it is based on our experience. Test in an inconspicuous area when using on metal surfaces. Preliminary testing required! For further information, see the technical information leaflet.

UNDERBODY PROTECTION GUN



We recommend the use of an air regulator at the base of all UBS guns. Art. **0699 000 032**

For fast application of stone-chip and underbody protection products on a plastic, bitumen and wax basis.

- With variable spray nozzle for restoring original structure on sill panels, wheel wells, floor groups etc.
- R 1/4" connection.
- **Application pressure 2 - 8 bar.**

Description	Art. No.	Pack Qty.
UBS Spray Gun	0891 106 0	1

DST 380 PNEUMATIC JIGSAW



Rugged body saw for long service life and tough applications.

Art. No. 0703 881

P. Qty. 1

- Safety valve lever prevents accidental switch-on.
- Rubber-coated handle area for pleasant working conditions.
- Saw blade can be turned 180° for working overhead.
- Integrated power control for respective use.
- Adjustable guide enables exact adjustment of the cutting depth.
- Ideal for cutting aluminum, plastic, fiberglass (max. 4 mm) and metal sheets up to 1.6 mm.

Technical Data

Strokes	9,500 rpm
Operating pressure	6.3 bar
Weight	0.750 kg
Length	215 mm
Diameter	38 mm
Average air consumption	170 l/min
Connection thread	1/4"
Minimum hose dia.	9 mm

Accessories

Designation	Art. No.	P. Qty.
Plug-in nipple with R 1/4" male thread made of nickel-plated steel	0699 100 614	3
Pneumatic couplings	0699 1...	
1/4" pneumatic rotary joints	0699 2...	1
Pneumatic hoses	0699 9...	
Small mist oiler	0699 070 314	
Special oil for pneumatic tools (1 l)	0893 050 5	
Pressure reducing valve 6 bar, 1/4" external and internal thread, made of nickel-plated brass	0699 003 60	
Body saw blades with flat mounting	0696 9 ...	10
Body file blades	0609 40...	2

When inured regularly, the machine should be lightly oiled by the compressed air supply every day. The use of in-pist oil is not recommended, and the specifications of the applicable regulations are to be complied with.

POWER TOOLS

POLISHING MACHINE



Accessories shown here can be found on the following pages.



Powerful polishing and burnishing machine in a compact and handy package.

PM 200-E
Art. No. 0702 453 0

Two in one, for painted and metal surfaces.

With the appropriate accessories, the PM 200-E replaces a burnishing machine.

Extremely handy and lightweight.

Minimal force needed when working side surfaces.

Double transmission reduction.

Enables very low speed for careful, targeted polishing.

Gentle start and restarting protection (after power failure).

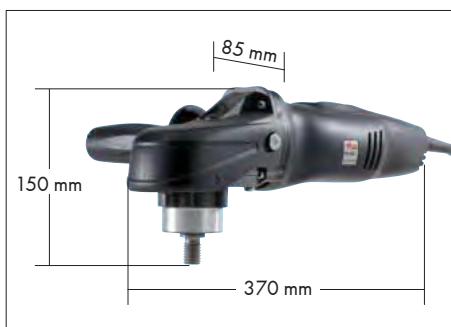
Safer working for the user.

Delivery Scope		
Designation	Art. No.	Cont.
Polishing Machine PM 200-E	0702 453 X	1
Handle Hood	0708 452 001	1
Additional Handle	0708 492 050	1

Technical Data	
Voltage	230 V / 50 Hz
Protection class	II/III
Power draw	1.200 Watt
Power output	750 Watt
Idling speed	900 - 2,500 rpm
Insert tool diameter	max. 200 mm
Spindle thread	M 14
Weight	2.4 kg
Cable length	4 m



The very elaborately designed gearing enables excellent power transmission in a compact unit.



Available in the Fleet management system ORSY® fleet.

ELECTRONIC HOT-AIR BLOWER



Handy, light unit with stepless temperature and air quantity adjustment.

HLG 2300 LCD
Art. No. 0702 203 0

Additional LCD display with memory function.

Rugged ceramic heater.

Long service life, low sensitivity to jolts.

Light and ergonomical.

Low fatigue even when working for longer periods.

**Only HLG 2300-LCD:
LCD display.**

Enables storage of frequently used settings. In addition, simple temperature and air quantity control is also possible.

Technical Data	
Designation	HLG 2300-LCD
Voltage	230 V / 50 Hz
Protection class	□ / II
Output	2,300
Temperature	50 - 650 °C
Air Flow	150 - 500 l/min.
Cable length	4 m
Weight	0.95 kg

Delivery Scope	
Designation	HLG 2300-LCD
HLG 2300-LCD Hot-Air Blower	1
Reducing nozzle, 9 mm dia.	1



The temperature of the air stream can be controlled with the adjusting wheel.



The LCD display enables exact adjustment of the temperature and air quantity. In addition, four presettings are stored:

Level	Temperature °C*	Level	Temperature °C*
1	50	6	400
2	100	7	480
3	200	8	540
4	300	9	600
5	350	-	-

* Guide values

Program	Temperature °C	Air quantity l/min.	Use
1	250	350	Deforming plastic pipes
2	350	400	Heat-sealing plastic
3	450	500	Removing paint
4	550	400	Soft soldering

The values for the presettings can be changed as desired.

SAFETY PROTECTION

SAFETY GOGGLES



Polycarbonate

- Fit over all prescription glasses
- Unrestricted side perception through panoramic lens with 180° field of view
- Polycarbonate lens with matt roof section to suppress reflections

Art. No.	0899 102 230
P. Qty.	1
Colour of disc	Clear
EN standard	166, 170
Mechanical strength	F (45m/s)

FLIP-UP WELDING GOGGLES



With close-fitting goggle frame

- Fold-up glare protection
- Also fits over prescription glasses
- Indirect ventilation system for comfortable eyes
- Easy lens replacement
- Cellulose acetate clear lenses in fixed part
- Individually adjustable, comfortable head strap

Art. No.	0984 503 51	0984 503 81
P. Qty.	1	1
Protection stage	5	8
EN standard	166, 169	166, 169
Mechanical strength	F (45m/s)	F (45m/s)

Spare parts for	Designation	Art. No.
0984 503 51	Spare lens flip-up welding goggles Clear	0984 503 500
	Spare lens flip-up welding goggles Protection stage 5	0984 503 510
	Spare lens flip-up welding goggles Protection stage 8	0984 503 810
0984 503 81	Spare lens flip-up welding goggles Clear	0984 503 500
	Spare lens flip-up welding goggles Protection stage 5	0984 503 510
	Spare lens flip-up welding goggles Protection stage 8	0984 503 810

TOOLS

CLIP REMOVER

Chrome Vanadium steel forged.



- For gentle removal of clips on interior linings.
- Vanadium special steel, chrome-plated.

Blade opening in mm	Blade length in mm	Total length in mm	Art. No.	P. Qty.
16	175	290	0714 34 52	1

TOOL CASE



This tool case is the perfect choice for portable use in particular.

Complete with 91 tools

Art. No. 0965 93 120

Wide selection of contents

All common tools in one case

High-quality case

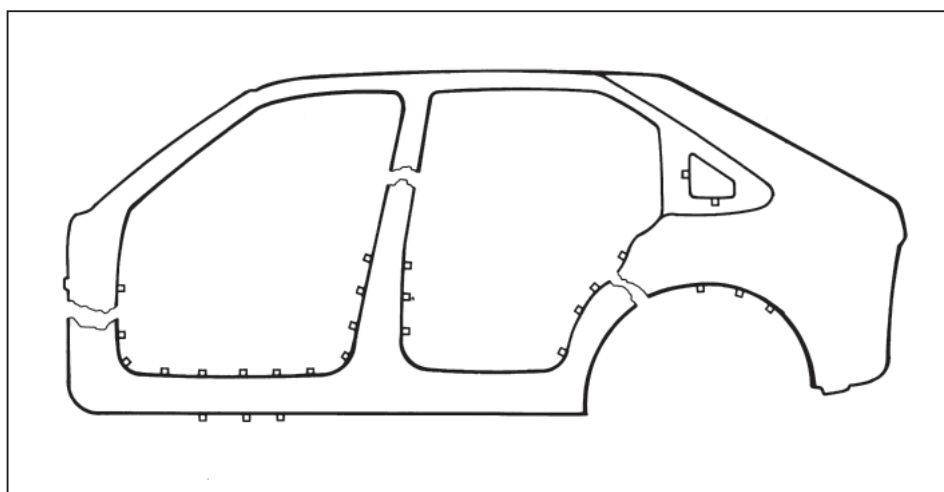
Plastic case with folding aluminum cover

Dimensions: 423 x 360 x 86 mm

Scope of delivery		
Designation	Art. No.	P. Qty.
ZEBRA® combination spanner, 11 parts: 8, 9, 10, 11, 12, 13, 14, 16, 17, 19, 22 mm	0713 301 08 - 0713 301 22	1
Combination pliers: 180 mm	0715 01 575	
Hammer, 400 g	0715 731 40	
Water Pump Pliers, 250 mm	0714 02 71	
Voltage tester 3.0 mm, 150 - 250 Volt	0715 53 05	
ZEBRA® 1/4" Ratchet 135 mm	0712 014 0	
ZEBRA® 1/4" Cardan Joint	0713 118 301	
ZEBRA® 1/4" Extension 50 + 100 mm	0713 118 102/104	
ZEBRA® 1/4" Socket Wrench Insert, 12 parts: 4; 5; 5,5; 6; 7; 8; 9; 10; 11; 12; 13; 14 mm	0713 111 104 - 0713 111 114	
ZEBRA® 1/2" Ratchet 250 mm	0712 012 0	
ZEBRA® 1/2" Cardan Joint	0712 138 301	
ZEBRA® 1/2" Extension 125, 250 mm	0712 138 105/110	
ZEBRA® 1/2" Socket Wrench Insert, 19 parts: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 26, 27, 28, 30, 32 mm	0712 131 110 - 0712 131 132	

Scope of delivery		
Designation	Art. No.	
ZEBRA® Screwdriver 1/4", square	0613 430 310	
ZEBRA® Straight-Blade Screwdriver, 0.6 x 3.5 x 100 mm	0613 231 735	
ZEBRA® Straight-Blade Screwdriver, 1.2 x 6.5 x 150 mm	0613 231 065	
ZEBRA® Screwdriver PH 1	0613 232 01	
ZEBRA® Screwdriver PH 2	0613 232 02	
1/4" Bit Adapter	0614 176 680	
Bit Assortment, 30 parts: 1 x AW 10, 25, 30 / Internal Hex. 3,4,5 mm / TX 15, 40 1 x Slot 4.5 x 0.6; 5.5 x 0.8; 6.5 x 1.2 mm 2 x AW 20 / PH1, 2 / PZ1 / TX 10, 20, 25, 303 x PZ 2	0614 ...	
1 x Bit Holder, 51 mm	0614 176 711	

SET OF FIXING CLAMPS



Contents

Description and contents of set	Sheet metal thickness x mm	Art. No.	Pack Qty.
8 fixing clamps	0 - 2.5	0713 744 025	5
8 fixing clamps	2.5 - 5	0713 744 050	5
1 pliers for fixing clamps	0 - 2.5	0713 744 01	1

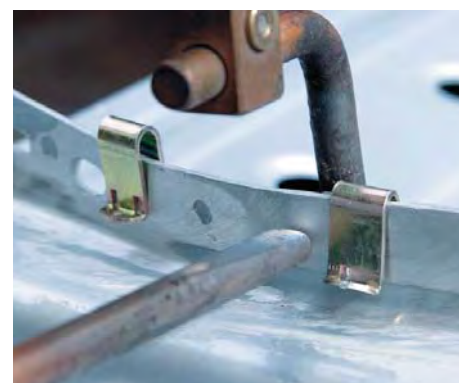
Instructions for use



1. Insert the fixing clamp into the special pliers and open the clamp.



2. Slide the clamp over the sheet metal edges to be joined and release the pliers.



3. The powerful force of the fixing clamp keeps the clamped sheet metal in place. To remove the fixing clamp, slide the pliers over it and open the clamp.

For quick and easy fixing of sheet metal for welding or bonding.

Art. No. 0965 744 17

Quick fastening and loosening of clamps.

Enormous time savings in comparison to impact or screw clamps.

Most economical alternative to conventional vise-grip pliers.

Lowest purchasing cost.

Large clamping range in comparison to clamp size.

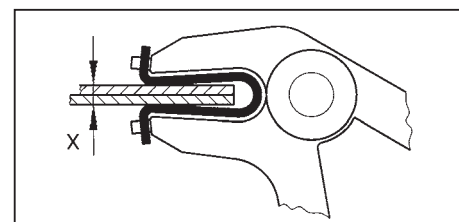
Owing to their small size (corresponding to a door seal), gap dimensions can be set without effort.

No cumbersome loosening or opening of clamps.

Readjustment of sheet metal possible at any time without problem.

The special angled shape of the pliers allows universal use of the clamps.

Use clamps in tight spaces, such as trunk edges, hatchback, door columns, triangular windows etc.



WINDSHIELD CUTTING ASSORTMENT

Art. No. 0714 58 25



0714 58 20



0891 656



0714 58 23



0714 58 24



0714 58 28

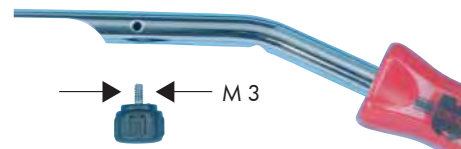
Assortment contents

Designation	Art. No.	P. Qty.
1 pair of Suction-Cup Lifters, suction surface dia.: 120 mm	0714 58 20	1
Corrugated Cutting Wire, gold-colored, dia. 0.8 mm x 22.5 m	0714 58 28	
Pulling Handle	0714 58 23	
Long counter holder for flat windshields, wire clamp with knurled screw	0714 58 24	

Cutting wire

Designation	Tensile strength in N/mm ²	Edge radius in mm	Length in m	Art. No.	P. Qty.
Square, 0.6 x 0.6 mm stainless steel	2,000 - 2,100	0.1	50	0891 656	1
Square, 0.6 x 0.6 mm special steel	2,400 - 2,600	0.08	50	0714 58 281	
Corrugated, dia. 0.8 mm, gold-colored	2,000 - 2,061	None	22.5	0714 58 28	

Spare Knurled Screw for counter holder (M3)



Art. No. 0714 58 241

P. Qty. 1

INSERTION PROBE



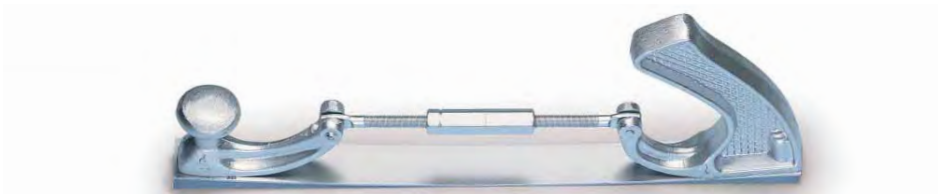
Long version

- For easy insertion of the cutting wire with flat windshields
- Total length: 155 mm

Art. No. 0714 58 27

P. Qty. 1

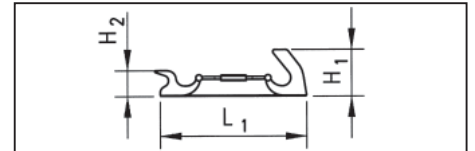
BODYWORK FILE HOLDER



For Blade Width mm	Length L1 mm	Height H1 mm	Height H2 mm	Art. No.	P. Qty.
35	350	110	60	0714 61 73	1

- Adjustable concave and convex

- Aluminium handle.

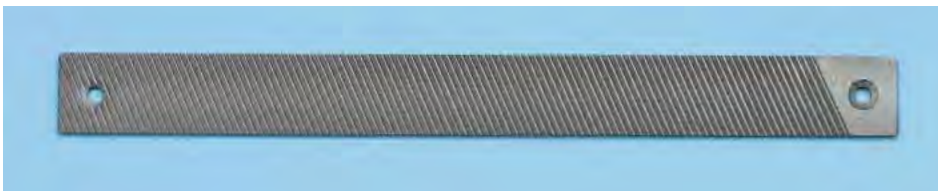
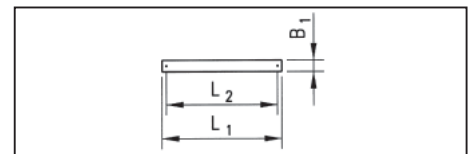


BODYWORK FILE BLADES



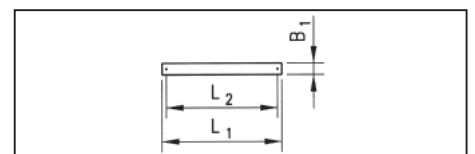
Type	Teeth per inch	Length L1 mm	Hole distance L2 mm	Width B1 mm	Art. No.	Pack Qty.
Radial coarse	9	350	325	35	0714 61 71	1
Radial medium	12				0714 61 72	

- Flat.
 - Double-sided radial milled.
 - Suitable for bodywork file holders
- Art. No. 0714 61 73**



Type	Teeth per inch	Length L1 mm	Hole distance L2 mm	Width B1 mm	Art. No.	Pack Qty.
Diagonal coarse	9	350	325	35	0714 61 711	1
Diag. medium	12				0714 61 712	
Diagonal fine	18				0714 61 713	

- Flat.
 - Double-sided diagonally milled.
 - Suitable for bodywork file holders
- Art. No. 0714 61 73**



HAND CARTRIDGE GUNS

High-quality versions



For processing 310 ml cartridges

- Immediate power transmission onto the push rod.
- Very robust housing and feed mechanism.
- Good value for the money.

Art. No. 0891 310 1

P. Qty. 1

PULLING HANDLE FOR CUTTING WIRE



For pulling the cutting wire

Art. No. 0714 5823

P. Qty. 1

HAND SANDING BLOCK



Made of high quality material

- 2 sanding paper holders.
- Sanding pad with soft plastic underpad.
- Stable design.

Dimensions in mm	Art. No.	P. Qty.
212 x 105 x 105	0899 700 321	1

HAND CARTRIDGE GUNS

For processing 310 ml cartridges

High-quality versions



- With quick-clamping device.
- Simple handling.
- Quick feed.
- Excellent power transmission, making work easier.

Art. No. 0891 00

P. Qty. 1



- With quick-clamping device.

Art. No. 0891 000 001

P. Qty. 1



- Immediate power transmission onto the push rod.
- Very robust housing and feed mechanism.
- Good value for the money.

Art. No. 0891 310 1

P. Qty. 1

Simple Version



- Riveted bracing.

Art. No. 0891 001

P. Qty. 1

DENT LIFTER AND PINPULLER® SET

Dent removal



Dent Lifter Set

Dent removal system with
adhesion technology.

Art. No. 0691 500 111

P. Qty. 1

PinPuller® Set

Universal dent removal system
with welding and adhesion
technology.

Art. No. 0691 500 169

P. Qty. 1

Dent Lifter Set



PinPuller® Set



Features:

- Paint does not need to be removed
- Interior trims do not need to be removed, and the battery does not need to be disconnected (→ welding).
- The minimal heat generated means that sensitive parts can be worked with as well.
- Easy removal of the adhered pulling adapters by spraying on adhesive remover.

Areas of application:

Painted surfaces, sheet steel and
aluminum.

Sheet thicknesses from 0.5 to 0.2

HEADLIGHT DETAILING SET



Before



After

Application – step by step

Step 1 – BASIC

Step 1: Thoroughly clean headlight and rub dry.

Step 2: Mask off components (double).

Step 3: Inspect surface and process with DL Eccentric Polishing Machine and Useit.

Step 4: Polish headlight surface with P80 PC Quick Sanding Polish (polishing fleece) and then with P90 PC High-Gloss Polish (orange pad). Polish out residual polish with microfiber cloth.

Optional: Spray headlight surface with polymer surface protection and wipe with a dry cloth.

Step 2 – EXTRA (only for headlights with painted surface, "Optional" point eliminated)

Step 5: Clean lens with Aqua Silicone Remover.

Step 6: Apply PC Primer perpendicular movements until completely covered and allow to flash off (clear surface).

Step 7: Coat lens with 2-component clear paint according to instructions.

Time required per headlight: approx. 20 min.

Professional 2-step system for detailing heavily weathered vehicle headlights.

Stone chips, UV radiation and other mechanical influences cloud the surfaces of polycarbonate lenses over the years or leave behind scratches and traces.

Innovative 2-step headlight detailing set

- Enables detailing of virtually all vehicle headlights
- Imparts new luminous intensity
- Minimizes risk of accidents
- Ensures approval of vehicle during general inspection

Art. No. 0964 893 160

P. Qty. 1

Contents:

- 1x P80 PC Quick Sanding Polish
- 1x Microfiber Cloth
- 1x P90 PC High-Gloss Polish
- 1x PC Primer
- 1x DL Polishing Machine
- 1x Rapid Two-Component Clear Paint
- 5x ZEBRA® Useit Superpad P240, P320, P400
- 2x ZEBRA® Useit Superpad SB500
- 3x ZEBRA® Useit Superpad SB1000, SB2000, SB4000
- 1x Soft Interface, 80 mm
- 1x Velcro Support Plate, 80 mm
- 1x M14 Adapter
- 2x Lambskin, 80 mm
- 3x Orange Polishing Pad, 80 mm
- 1x Hand Sanding Block
- 1x Precision Masking Tape, 38 mm

Additional Articles:

ECO LINE Insect Remover
Art. No. 0893 470 1

ECO LINE Glass Cleaner
Art. No. 0890 220 01

Polymer Surface Protection
Art. No. 0893 158

Breathing Protection Mask
Art. No. 0899 110 203

WIPERS

WIPER BLADES



Designed to fit a wide range of both passenger and commercial vehicles.

Size (in)	Art.
14"	108482414
16"	108482410
18"	108482450
20"	108482510
22"	108482422
24"	108482610

REFILL - REPLACEMENT RUBBER BLADES FOR CONVENTIONAL WIPERS



Features

- Universal rubber refill, fits on all conventional wipers
- Quick and easy mounting
- With graphite coating, good wiping quality & long service life
- Environmentally friendly

Length	Width	Art.
24 "	6 mm	10848261061
24"	6 mm	10848261064
28"	8.5 mm	10848262081

RAPID WINDSCREEN CLEANER



Highly-concentrated windscreen cleaner 1:100

Contains special cleaning substances

- Prevents smear formation
- Eliminates glare and lubricant films
- Ensures a crystal clear view
- Removes adherent insects and other soiling

Very good material compatibility

- Does not attack polycarbonate glass
- Gentle on paint and rubber

Instructions

Add rapid cleaner to windscreen wash according to wash water volume.