

Application:

- Ultrasound cleaning currently is the most up-to-date cleaning method.
- This method yields the best cleaning results, even in hard-to-reach places, at the same time perfect protection of the workpiece.
- Suitable for removing grease, oil, flux, grinding and polishing agents, remnants of point, oxide films, etc.
- For industry, trade, laboratories
- Suitable for materials made of iron and non-ferrous metals, plastics, glass, etc. (mechanical, electronic, optical and medical components).

Terminology of ultrasound cleaning methods:

Ultrasound oscillating systems

Special ultrasound oscillating systems transform electrical energy into mechanical oscillations. These are transmitted into the cleaning fluid via the stainless steel tray floor. This creates micro vacuum bubbles (micrometres), which implode with high speed (cavitation).

The resulting high-energy currents (jets) efficiently remove dirt from the workpiece surfaces.

Sweep mode

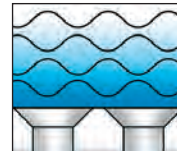
The sweep mode continually alters the excess pressure maxima, which creates a homogeneous sound field distribution. Furthermore, this eliminates standing waves. This, in turn, creates a perfect distribution of the cavitation power and, with that, a perfect distribution of the cleaning power all over the cleaning fluid and the workpieces to be cleaned.

Degas and auto-degas mode

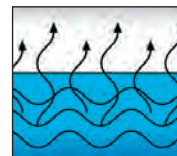
This mode serves to accelerate the degassing of the liquid after refilling the treatment chamber. It optimises the effect of the ultrasound cavitation in the cleaning fluid or in fluid supporting the ultrasound.



Ultrasound oscillating systems



Sweep mode



Degas mode

69005 - 69006

Ultrasound Cleaning Devices



69005

Type

- Housing, tray, insert basket and cover of stainless steel
- Integrated, heater thermostat adjustment from 30°-85°C and timer
- 35 kHz ultrasound system.

Use

Perfect for de-greasing, removal of lapping-, polishing- and gliding grinding substances, punching oils and wire-drawing greases as well as high-quality cooling lubricants. The cleaning process is thorough, yet gentle thanks to the ultrasonic waves.

69006

Type

- Oscillating tray of cavitation-resistant special steel
- Powerful thanks to additional oscillating systems
- 2 cleaning stages, high heating capacity for shorter heat-up times, dry-run safe heater
- Practical handling through removable power cord
- Fast drain with welded piping
- Operating unit protected against dripping water
- Timer for ultrasonic device, adjustable 0-15 min. and continuous operation
- Heater regulation from 30°-80°C.

Note:

Accessories available on request.

69005 201



69005 202



69005 203



69005 201-203 including cover and basket

69006 101



69006 104



Ultrasonic cleaning concentrates see next page, cat.-no 69010 - 69014 ▶

Type	Outer dimensions L x W x H mm	Contents Litre	HF permanent peak performance	69005	...	69006	...
S 30 H	265 x 175 x 215	2,75	300		201		
S 100 H	394 x 275 x 372	9,50	600		202		
S 300 H	606 x 405 x 400	28,00	1200		203		
X-tra 30	360 x 205 x 250	3,00	2 x 240			#	101
X-tra 150	425 x 315 x 350	14,00	2 x 600			#	104



69010 - 69014 Concentrated Cleaning Detergents for Ultrasound Cleaning Devices



Type
Elma Tec Clean detergents are extremely efficient. They were developed particularly for high-performance ultrasound cleaning devices. The detergents on the one hand solve cleaning problems in the industry. On the other hand, they protect the heavily stressed oscillating trays.
The ultrasound oscillating trays oscillate with a frequency of 25 - 130 kHz. Due to the ultrasound, small cavitation bubbles originate, which, in combination with the applicable cleaning detergent, gently remove the dirt from the workpiece. During this process, oscillating trays, made of special stainless steel, are subjected to heavy flexural stress. Cleaning detergents, which do not take into account this application, might contain ions, which further corrosion or stock removal. Halogenide ions for example, strongly further corrosion and therefore considerably reduce service life. Chloride and fluoride in an acid medium are most aggressive in this respect. Elma Tec Clean extends the service life of ultrasound cleaning devices.

Note:
Elma ultrasound cleaning devices see cat.-no. 69005 - 69006.

69010
Elma tec clean A1
Use
For cleaning purposes in electronics and optics environments. Especially suitable for cleaning PCBs and electro-mechanic components. Removal of flux remnants, fingerprints or dust. Dosage 3-10 %.

69012
Elma tec clean A3
Use
Especially suitable for cleaning metal workpieces following mechanical For stainless steel, steel, ferrous metals, grey cast iron, titanium and precious metals following turning, milling, lapping, polishing, tumbling, extracting and punching. Easily removes polishing paste, oils, grease, metal chips etc., even from boreholes and hard-to-reach places. Dosage 3-6 %.

69013
Elma tec clean A4
Use
Alkaline multi-purpose cleaner. For metals, non-ferrous metals, light metals, glass, rubber, ceramics and alkaline-resistant plastics. Removes standard dirt, such as oil, grease, polishing compound remnants. Causes the oil, grease and/or wax to float to the surface. They are then removed with the ultrasound cleaning device. Dosage 1-5 %.

69014
Elma tec clean A5
Use
Power cleaner for iron and light metal. Cleaning powder for cleaning of heavy soiling such as resin, carbonisations, tar and colour and varnish remnants. For maintenance cleaning of car parts, cutting tools and other machine parts. Dosage 1-4 %.



Contents	Contents	A1		A3		A4		A5	
		69010	...	69012	...	69013	...	69014	...
l	g								
2,5	-		101		101		101		
10,0	-	#	102		102		102		
-	850								101

69040 Intensive Cleaner

Type
Effective cleaner, very suitable for use with machine tools. Free of preservatives, non perfumed. Can be used everywhere where sticky and fatty dirt needs to be removed: both in workshops and industry. Does not corrode rubber, plastic, or metals, and consequently offers universal operation.
Use
Intensive cleaner can be sprayed on, splashed on or simply put on with a sponge or a brush. **Suitable also for high-pressure cleaning equipment.** Depending on contamination level, the cleaning substance can be used pure or attenuated. For maintenance care we recommend to use a 2 - 10% vol. ratio. For basic cleaning work, we recommend an average mixture with 10% vol. intensive cleaner. After use wash and dry hands. Use skin

care cream (cat.-no. 68025) afterwards. It is recommended to use safety gloves, when it comes to frequent skin contacts.

Note:
The intensive cleaner corresponds to the regulations of the German law for food and consumer products. Biologically degradable.



Contents	69040	...
750 ml spray bottle		100
10 l canister		201
200 l drum	F #	203



Special Tools / PPE

69100

HHW Oil-Free

Type

Decontaminates oil until the depth of the ground on almost every materials and surfaces. Transforms oil into micro oil particles. The encased micro oil particles can no longer adhere to the surface and can therefore be removed easily.

Application:

Removal of oils and fats from tools, workpiece, machines, concrete floors and plastic coatings.

Properties:

- Absolutely environmentally friendly
- Biologically degradable over 99%
- Solvent-free
- Non-corrosive
- Neither flammable, nor explosive
- No toxic fumes

Use

Apply to or spray on dirty sections, let penetrate for a few minutes, for worse dirt let penetrate for some more time (slightly re-splashing with water increases cleaning effect). Simply wash off or splash with water and clean it up with a vacuum cleaner or an oil binding substance (cat.-no. 69215).

Before use**After use**

69100 101



69100 102

Contents	69100	...
1 l spray bottle		101
5 l Canister		102

69167

Scotch-Brite High-Performance Cleaning Cloths

3M**Type**

With patented fibre combination polyester and nylon. Extremely economical removal of aqueous and fatty dirt with low force. The cloth absorbs up to 100 times more grease and dirt than standard cleaning cloths. Machine-washable up to 95 °C. Blue.

Pack = 5 pcs.

Use

For all surfaces. Clean dry, damp and wet.

Dimensions per cloth approx. cm	69167	...
36 x 32		101



69167

69205

Moist Cleaning Towels

**Type**

In dispensing bucket with approx. 72 cloths 25 x 25 cm.

Use

For cleaning hands and surfaces, e.g. tools, workbenches, etc. Also removes extremely stubborn contamination, such as oil, glue, grease, etc. without problems.

approx. pcs. per bucket	69205	...
72	#	101



69205

69210

Folding Towel Dispensers/Folding Towels

69210 201

Folding Towel Dispenser**Type**

Multi-purpose lock design The special profile design of the dispenser guarantees an easy removal of the towels. The dispenser can be refilled very easily before it is empty. Size : 30,5 x 13,2 x 38,9 cm.

69210 202-203

Folding towels**Type**

Extra soft, hygienic, and with high tensile strength. With innovative **LIM technology embossing** for better and faster absorption. The folding procedure

guarantees a controlled consumption and ensure that the user only touches the towel they remove. Allergy-tested

69210 202

Type

2-ply tissue, 3045 towels, white.
Size : 23,5 x 25,0 cm.

69210 203

Type

3-ply tissue, 1890 towels, bright white.
Size : 23,5 x 34,0 cm.

69210 202



69210 201

69210 203



	69210	...
Folding towel dispenser	#	201
Folding towels, 2-ply	#	202
Folding towels, 3-ply	#	203



69170

Cellulose towels



Type
White, soft, with high tensile strength, 1-ply Airlaid, 135 pcs. in dispenser.

Use
Very soft cleaning towel with great absorbency, for water and soap. For hand cleaning.



69170

Dimensions approx. cm	69170	...
30 x 32	#	101

69175

Paper Cleaning Rolls



69175 102
Type Advanced 420
Type

Stable, 2-ply, blue cleaning cloth roll in hybrid quality. One ply tissue connected to a voluminous TAD ply whose soft outer side is extremely absorbent. Through the line embossing increased absorption of liquids is possible. 1500 sheets per roll.

Use
Optimally suited for cleaning all water-resistant surfaces, where the priority is take-up of liquids, quickly and easily.

69175 101
Type Advanced 430
Type
High-quality blue cleaning cloth roll of 2-ply TAD material. Double absorbency, as well as extreme wet strength offer a significant economic advantage. 1000 sheets per roll.
Use
Like cat.-no 69175 102, however with higher fluid absorption

Note:
Dispenser for rolls see cat.-no. 69201.



Type	Dimensions pro cloth approx. cm	69175	...
Advanced 420	34 x 37	#	102
Advanced 430	34 x 37	#	101

69176

Paper cleaning towel rolls and dispenser



69176 101
Type
Highly absorbent towel with high tensile strength in hybrid quality. That means, this 2-ply white towel consists of one ply TAD and one ply tissue. Both plies are connected by a bluish embossing. 2 rolls of 750 towels.

69176 102
Centerfeed dispensing system
Type
Wall mount for Centerfeed, lockable. Plastics, colour opaque-blue/black.
Use
For cleaning towel rolls up to 43 cm.



Type	Dimensions per cloth approx. cm	H x B x T mm	69176	...
Cleaning cloth roll	24 x 34	-	#	101
Dispensing system	-	420 x 330 x 345	#	102

69183 - 69184

Fleece Cleaning Towels



69183
Use
This textile-like cloth for precise cleaning is particularly tear-resistant and reusable. It enables take-up of metal chips and is solvent-resistant.

69183 101
Type Premium 520
Type
Premium fleece cloth, grey, 1-ply. On the roll, in the box with the possibility of taking off the cloths individually. Roll with 390 cloths.

69183 102
Type Premium 520
Type
Premium fleece cloth, grey, 1-ply large cloth, individually folded. 140 cloths in the large bag.

69184 102
Type Premium 530
Type
Blue, 1-ply, perforated, 100 towels in bag.
Use
Heavy-duty cleaning towels with fabric feel. Also for working with strong solvents. Extremely tear-resistant with high absorbency. Embossed surface allows for quick absorption of oil. Thanks to the thickness, the hands are protected from metal chips. Heat-insulating.



Type	Number of cloths pc.	Dimensions per cloth cm	69183	...	69184	...
Box	390	32,0 x 38	#	101		
Large bag	140	38,5 x 43	#	102		
Large bag	100	38,5 x 43			#	102

69200

Cleaning towels

69200 201

Fleece Cloths

Type

Coloured, high cotton content

Use

For general cleaning jobs.

69200 203

Cellulose-fleece soft clothing roll

Type

White, extra-strength, moisture-resistant, highly absorbent, solvent resistant.

Use

For all applications in which dust fibres must be prevented and high wet-strength is required.

69200 204+105

Cleaning Cloth Roll

Type

Blue, high wet strength.

Use

For industry and trade, perfect for light and hard cleaning jobs.

69200 204

3-ply, embossed edge and surface.

69200 105

Multiclean®

2-ply, embossed point-to-point. Pack = 2 rolls

69200 106

Tissue Cleaning Cloth Roll

Type

Highly absorbent, tear-resistant, 3-ply, blue. Volume and surface embossing, ply-glued. Pack = 2 rolls

Use

High absorbency, as well as fast and efficient take-up of liquids.

69200 206

Polytex® Wet Wipes Roll

Type

Blue, can be washed out, silicone-free, tear-resistant, lint-free, solvent-resistant, anti-static.

Use

For cleaning and wiping in the food industry, automotive industry, industrial kitchens, trades, etc.



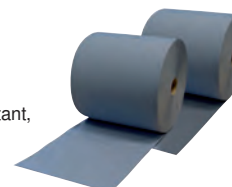
69200 201



69200 203



69200 204



69200 105



69200 106



69200 206



Type	Dimensions pro cloth approx. cm	Number of cloths approx.	Number of Pull-offs approx.	69200	...
Fleece	35 x 33	415	-	#	201
Cell fleece	36 x 27	-	500	#	203
3-ply	38 x 36	-	1000	#	204
Multiclean®, 2-ply	35 x 37	-	1000	#	105
Tissue	38 x 36	-	500	#	106
Polytex®	38 x 32	-	500	#	206

69201

Floor Stands/Wall Holders

69201 101

Floor stand

Type

Portable, with waste bag holder. Waste bag and cloths not included.

Use

For cleaning cloth rolls to 42 cm roll width.

Note:

Plastic rubbish bags see cat.-no. 69195 + 85851.

69201 103

Floor stand

Type

Metal/plastic, blue, without rollers.

Use

For cleaning cloth rolls to 40 cm roll width.

69201 102

Wall mount

Type

Metal, blue.

Use

For cleaning cloth rolls to 40 cm roll width.

69201 101



69201 103



69201 102



Type	Dimensions W x H x D mm	69201	...
Floor stands with wheels	480 x 1060 x 550	#	101
Floor stands without wheels	460 x 900 x 440	#	103
Wall holder	500 x 312 x 23	#	102

69195

Rubbish bags



Use

For floor stands, cat-no 69201 101.

69195 101

Type

HDPE quality high, load-bearing capacity.

Not suitable for sharp objects.

69195 102

Type

Standard type in tear-resistant LDPE quality

Colour	Contents Litre	Dimensions H x B mm	Pack = pc.	69195	...
blue	70	1000 x 575	50	#	101
transparent	70	1000 x 575	25	#	102

69195 101



69215 Oil Binding substance

69215 101
Type
 Quick-action and high absorbency. Made of 100% polyurethane granulate material, water-repellent.
Use
 Multi-purpose sweeping compound for oil and chemicals. For all tile floors and sealed floors.

69215 102
Type
 Quick-action and high absorbency. Based on magnesium hydroxy silicate/sepiolite. Chemically inert product, non-flammable and non-toxic.
Use
 Especially suitable for emulsions of all kinds. Safely absorbs chemicals, oils, grease, fuels and other dangerous liquids.



Grit size mm	1 sack binds approx. l	Contents approx. l	Weight approx. kg	69215	...
0,125 - 4	33	50	12		101
0,5 - 1	15	32	20		102

69220 Universal absorbing hose

Type
 Filled with high-quality polypropylene flakes
Use
 Versatile application for oil and chemicals. For taking up escaped fluids on machines. Ideal for a safe and clean workplace.



Length m	Ø cm	Take-up Litre	pc. pro Box	69220	...
1,2	7,5	80	20		201

69225 - 69226 Absorbent Cloths and Rolls

Type
 Polypropylene fleece for taking up liquids and chemicals. Highly absorbent, clean and safe. High absorption capacity, unproblematic disposal (combustion of polypropylene leaves no residue).
Use
 Compatibility with chemicals Ideal on the workbench, on the floor, under machines and pipelines, etc.

69226
Type
Cloths, extra absorbent 300 g/m², **100 clothes**, 40 x 50 cm.



69225
Type
Roll, extra absorbent 300 g/m², Length 40 m, width 40 cm. **Pack = 2 rolls.**



Note:
 Suitable floor stands and wall holders see cat.-no 69201.

	Take-up Litre	69225	...	69226	...
Roll	180		201		
Cloths	113				101

69227 Absorbent Roll Multi-format

Type
 Double folded roll, can be used as Schlängel or cloth. Polypropylene fleece, reinforced and lint-free. In the dispenser box.
Use
 Ideal for versatile implementation in the workshop or for external maintenance and repair deployments. For all fluids and chemicals.



Length m	Width cm	Width folded cm	Take-up Litre	69227	...
15	40	14	24		101

Special Tools / PPE

69820

Caramba Super multi-purpose spray



...das wirkt!

Caramba Super - The original multi-purpose spray

Rust penetrator, lubricant, contact spray, corrosion protection, cleaner. Excellent lubricating capability at high pressure (VKA value: 1.900N). High liquid displacement and good corrosion protection. Temperature-resistant from -40°C - +180°C. Without solids and silicone, no resinification, good penetration characteristics.

Contents ml	69820	...
500 Aerosol can		101
5000 Canister	#	102

69820 101

69820 102



69823

Caramba MoS₂ Rust Penetrator


...das wirkt!

Rust penetrator, lubricating and penetrating oil.

Good lubricating capability at high pressure (VKA value: 1.200N). Temperature-resistant from -40°C - +450°C, suitable for ultra-high vacuum. Perfect lubrication for dry conditions, silicone-free.

Contents ml	69823	...
500		101



69823

69826

Caramba Express contact spray



...das wirkt!

Solves humidity-caused failures of the ignition system and in electrical systems. Very good and consistent cleaning characteristics. Removes and displaces humidity. For steel, iron, light metal, and plastics. Perfect penetration characteristics for good results. Temperature-resistant from -50°C - +180°C.

Contents ml	69826	...
500		101



69826

69829

Caramba Aktiv leak detector spray



...das wirkt!

Reliable determination of leaks on gas and air-pressure pipes. Reliable and quick diagnosis thanks to acute frothing. Suitable for all gas installation companies and test facilities. PH-neutral and suitable for all seals used in installation work. Non-flammable, will not react with gases or cooling agents. Temperature-resistant from -15°C - +50°C. DVGW approval in accordance with DIN 14291.

Not suitable for lines that conduct oxygen.

Contents ml	69829	...
400		101



69829

69832

Caramba High-Performance Silicone Spray



...das wirkt!

Multi-purpose lubrication and care product for metal, plastics, and rubber. Temperature-resistant from -30°C - +200°C, clear and low odour, non-staining. High resistance against water in order to prevent icing up. Approved for the use in food-handling areas.

Contents ml	69832	...
500		301



69832



Caramba Profi-Line

69833

Caramba high-performance PTFE spray

caramba

...das wirkt!

Multi-purpose lubrication and protection product with synthetic basis. Excellent dry lubricating and emergency running characteristics, excellent lubricating capability at high pressure (VKA value: 1.600N). Resistant against chemicals, not electro-conductive, silicone-free. Temperature-resistant from -30°C - +250°C, suitable for all atmospheric conditions (even vacuum), high resistance against water in order to prevent icing up.



69833

Contents	69833	...
ml		
500		101

69835

Caramba Rasant high-performance rust penetrator

caramba

...das wirkt!

Very good penetration characteristics, will loosen heavily rusted metal parts. Suitable for glue remains, dirt crusts, and resinification, silicone-free.



69835

Contents	69835	...
ml		
500		101

69838

Caramba high-performance welding protection spray

caramba

...das wirkt!

Protection against weld spatter, prevents workpiece damage - non-flammable propellant gas for safe welding in cavities. Perfect application for arc and inert gas welding of steel, aluminium, and Nirosa. Tested in compliance with DIN 8572.



69838

Contents	69838	...
ml		
400		101

69841

Caramba zinc spray (dull grey)

caramba

...das wirkt!

Long-lasting corrosion protection for metallic surfaces. Galvanic corrosion protection, quick-drying, very good conductivity for spot welds. Extraordinary corrosion protection (more than 1140 h in salt spray test in compliance with DIN EN ISO 9227). Can be painted over, temperature-resistant up to +600°C. Dried coating contains over 99% high-purity zinc. Dust-dry after approx. 8 minutes, dry to the touch after approx. 20-30 minutes.



69841

Contents	69841	...
ml		
500		101

69842

Caramba zinc spray (bright aluminium)

caramba

...das wirkt!

Long-lasting corrosion protection for metallic surfaces and for reworking hot-galvanised surfaces. Galvanic corrosion protection, quick-drying, very good conductivity for spot welds. Good corrosion protection (more than 144 h in salt spray test in compliance with DIN EN ISO 9227). Wear-resistant and can be painted over. Temperature-resistant up to +200°C. Dust-dry after approx. 8 minutes, dry to the touch after approx. 20-25 minutes.



69842

Contents	69842	...
ml		
500		101

69844

Caramba high-performance copper paste/copper spray

caramba

...das wirkt!

Protective and sliding coating, humidity-resistant. No sintering, seizing up, scaling, or fusing. For assembly lubrication of pipe, flange, exhaust, combustion chamber threaded unions etc. Good lubrication effect and adhesion force even at high pressures (VKA value in accordance with DIN 51350: 5.000N). Effective protection against wear and corrosion. Silicone and acid-free, no resinification. Temperature-resistant from -30°C - +1.100°C.

Lubrication of screw joints, plug connections, and flanges, which are subjected to high temperatures.

Not suitable for ABS and ESP systems.

Contents ml	69844	...
200		101
500		301



69844 301

69844 101

69847

Caramba Intensiv heavy-duty cleaner

caramba

...das wirkt!

Quickly and thoroughly loosens and removes crusted and resinified dirt, oil, fat, and other residues. Quick-drying and residue-free evaporation. Non-corrosive, silicone-free. Contains acetone. For cleaning and degreasing machine parts, surfaces, steel ropes, gears, etc.

Contents ml	69847	...
500		101



69847

69848

Caramba Aktiv stainless steel cleaner

caramba

...das wirkt!

Cleaning and protection for all metallic surfaces inside and outside. Removes contamination, lime spots, flash rust, greases, oils and resins on stainless steel, aluminium, copper, and brass, optimal start-up protection, anti-static effect, NSF-tested, –approved for the food processing industry.

Contents ml	69848	...
500		101



69848

69849

Caramba Intensive Brake cleaner

caramba

...das wirkt!

Cleaning of brakes and other car parts. Quick-drying and residue-free evaporation. Very good cleaning characteristics, free of acetone. Neutral towards rubber, plastics, and lacquered surfaces. Silicone-free and degreasing.

Contents ml	69849	...
500		301



69849

69846

Magnetic Aerosol Can Tray

Type

- 6 strong magnets
- Magnetic holding force approx. 4 kg
- 10 bores Ø 19 mm in the floor

Use

For example, 3 aerosol cans with Ø 73 mm.

Dimensions mm	69846	...
210 x 75 x 70		101



69846



Info

Multi-function spray WD-40 Classic & Smart Straw™ cat.-no 69850



WD-40 is silicone-free and resin-free. It infiltrates layers of rust, loosens seized mechanisms, and seized vehicle and machine parts. Removes stubborn contamination, dispels moisture from electrical contacts and prevents stray currents. In addition WD-40 leaves behind a thin protective film that prevents moisture and rust from forming on metal parts.

The innovative WD-40 Smart-Straw™ sprays perfectly in two ways, thanks to the innovative flip-up straw on the spray head.

For pin-point spraying, e.g. for use as a contract spray, or for care of lock cylinders, simply flip up the straw. For surface application, e.g. cleaning rims, or caring for garden tools, simply flip the straw down.

With the innovative WD-40 Smart-Straw™ bothersome searching for the straw and fitting it on are dispensed with. One hand always stays free.

With the 5-fold active formula

1. Cleans and protects

- Loosens stubborn contamination, oil, grease and adhesive residues so they can be easily removed
- Leaves behind a maintaining protective layer

2. Eliminates squeaks

- For optimal operation of moving parts
- Eliminates and prevents squeaks and creaking sounds
- Without silicone, consequently no bonding

3. Loosens rusted parts and seized mechanisms

- Penetrates layers of rust
- Quickly loosens jammed metal parts, screws and nuts

4. Protects against corrosion

- Leaves behind a thin protective film that prevents moisture and rust from forming on metal parts

5. Displaces humidity.

- Keeps electrical and electronic mechanisms free



Flip up the straw for pin-point spraying.



For surface application, simply flip it down

WD-40 Smart Straw - The revolution in aerosol cans!

69850

Multi-Function Sprays WD-40



Type

- Rust penetrator,
- lubricant,
- contact spray,
- cleaner,
- corrosion protection,
- all in one!

69850 202

Aerosol can, contents 400 ml.

69850 301-302

Smart Straw can

Type

Permanently integrated spray straw on the spray head. For pin-point spraying, simply flip up, for surface applications flip down. Ideal for fast tasks without bothersome searching or fitting on.

69850 203

Container, contents 5 litres.

69850 204

Hand sprayer

Perfect for dosing and distributing WD-40. **Without** Contents. Holding capacity 500 ml. In supplementation to the 5-litre canister.



	Contents ml	Contents Litre	69850	...
Smart Straw can	300	-		301
Aerosol can	400	-		202
Smart Straw can	500	-		302
Canister	-	5		203
Hand sprayer/atomiser	-	-		204

69855

BALLISTOL Universal Oil



Type

Multi-purpose use. Forms an alkaline protective film on metals, neutralises sweat and other acidic residues which promote rust. Due to its low surface tension and incredible creep capacity, even the most acute angles and finest cracks in the metal are reached. Resin-free and acid free, age-resistant, biologically degradable and safe for the environment.

Absolutely skin tolerance and food grade.

Use

When working with automobiles, in trade and industry, e.g. as conserving and protecting agent for measuring instruments and all kinds of tools. Perfect for storing injection moulds and parts and for storing and protecting sensitive machinery. Prevents finger prints and corrosion. Also suitable for maintaining wood, plastics, and leather.



	Contents ml	69855	...
Aerosol can	200		101

Special Tools / PPE

ergo®

The modern glue technology has become a secure and economical joining method. High-quality glues for multi-purpose applications.

	Wood/leather	Balsa/cork	Metal	ABS	PVC	PMMA	GFK	PE/PP/POM/ PTFE/PA12	TPO/TPE	Rubber
Wood/leather	5011	5039	5011	5011	5011	5889	5011, 5039	5889+5150	5011+5150	5300, 5925
Balsa/cork	5039	5039	5039	5039	5039	5889	5039, 5925	5889+5150	5011+5150	5300, 5925
Metal	5011	5039	5039, 5889	5889, 5925	5925	5889	5889	5889+5150	5011+5150	5925
ABS	5011	5039	5889, 5925	5950	5300	5889	5011, 5300	5300, 5889+5150	5300, 5889+5150	5300, 5925
PVC	5011	5039	5925	5300	5300	5889	5011, 5300	5300, 5889+5150	5300, 5889+5150	5925
PMMA	5889	5889	5889	5889	5889	5889	5889	5889+5150	5889+5150	5011
GRP	5011, 5039	5039, 5925	5889	5011	5011	5889	5011, 5300	5889+5150	5889+5150	5925
PE/PP/POM/PTFE/PA12	5889+5150	5889+5150	5889+5150	5889+5150	5889+5150	5889+5150	5889+5150	5889+5150	5889+5150	5925+5150
TPO/TPE	5011+5150	5011+5150	5011+5150	5889+5150	5889+5150	5889+5150	5889+5150	5889+5150	5925+5150	5925+5150
Rubber	5925	5925	5925	5925	5925	5011	5925	5925+5150	5925+5150	5925
Silicone rubber	-	-	5300+5150	5300+5150	5300+5150	5300+5150	5300+5150	5300+5150	5300+5150	5300+5150

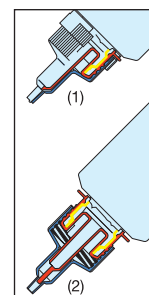
Turn and dose closure

The patented rotatable proportion lock is a special feature of ergo® glue and offers many advantages:

- one-hand operation - opening and closing with one hand, the other hand can handle the components.
- no clogged closure - when closing, the nozzle is simultaneously cleaned and closed.

- micro-dosage - the amount of glue coming out of the opening depends on how far the closure is opened.
- one-part bottle - bottle and proportion lock are one piece, no more losing the sealing cap.

- (1) = closed,
- (2) = open.



ergo®

ergo® Cyanacrylate instant glues are one-component products based on cyanacrylic acid esters, which harden when exposed to air humidity. ergo® Cyanacrylates are mainly used for gluing jobs with plastics, elastomers, and metals. The main advantages of these up-to-date glues are hardening speed, ease of use and high mechanical strength of the bond. In principle, ergo® cyanacrylate glues can be used from -55 - +120 °C (depending on the type).

Safety advice:

Vapours of cyanacrylate can irritate mucous membranes and eyes. Therefore, it is advisable to ensure good ventilation or exhaustion in the work area. Also, protective gloves (not cotton) and goggles should be worn. Cyanacrylate glues together skin and eyelids within seconds. Keep out of reach of children. Contact us to request the appropriate safety data sheet and technical sheet. Please heed the warnings on the containers.

ergo®

Clever gluing with SmartPen®.

Precise and perfect:

With the SmartPen you effortlessly bond with pin-point precision and in the right dose. In combination with our twist and proportion lock, it makes all gluing jobs quick, easy, and efficient. With a touch of the hand!

Clever gluing. Unparalleled precision and convenience. SmartPen®.



Glue

69860 - 69861

ergo. Cyanacrylate Second's Action Glues

ergo.

69860 101 + 69861 101
ergo.® 5011 Universal

Type

Quick-hardening standard glue of medium viscosity for different applications: Plastic, rubber, metal, fabric, leather, wood, ceramic, etc. NSF approval.

69861 101

Type

With SmartPen®.

69860 102

ergo.® 5039 Universal-Gel

Type

This second's action gel is characterised by its perfect flowing characteristics. It is perfect for vertical surfaces, larger workpieces or porous, absorbing materials: wood, cloth, cork, leather, plastics, ceramics etc.

69860 203 + 69861 103

ergo.® 5925 Elastomer

Type

This glue has a low viscosity and is quick-hardening. It is suitable for almost all standard applications on plastics, elastomers and metals, under normal conditions. NSF approval.

69861 103

Type

With SmartPen®.

69860 204

ergo.® 5210 Metal

Type

Glue of medium viscosity, highly impact and vibration-proof. High resistance against humidity, climate change and solvents. Slow hardening. Especially suitable for metal-plastic connections.

69860 107

ergo.® 5100 Activator

Type

Quickens the hardening process. For use with porous, inactive (acidic), nonpolar surface or large gaps. Apply the product on one side prior to applying the glue (on the porous, inactive surface).

69861 106

ergo.® 5014 multi-purpose (high viscosity)

Type

With SmartPen®. Multi-purpose glue with high viscosity. Suitable for porous and uneven surfaces. Thanks to its good bridging characteristics this glue is perfect for imprecise gluing jobs. This makes it particularly suitable for repairs.

69860 101



69860 102



69860 107



69861 101



Type	Contents g	Contents ml	69860	...	69861	...
5011 Universal	20	-		101		
5011 Universal with SmartPen	30	-				101
5039 Universal gel	20	-		102		
5925 Elastomer	20	-		203		
5925 Elastomer with SmartPen	30	-				103
5210 Metal	20	-		204		
5014 Universal with SmartPen	30	-				106
5100 Activator	-	150		107		

Info

Anaerobic Adhesives and Sealing Compounds

ergo.

ergo.® Anaerobic glues and sealants are liquid, one-component products, which harden when exposed to vacuum and metal surfaces. Therefore, they can only be used for gluing metals. ergo.® products are available in different strength classes and therefore ensure reliable bonds of the desired strength without additives. Setting can be accelerated, through heat and/or addition of the activator.

Safety advice:

In case of skin contact, at once wash thoroughly with soap and large amounts of water and see a physician. Contact us to request the appropriate safety data sheet and technical sheet. Please heed the warnings on the containers.

69865

ergo. The anaerobic glue for securing joints

ergo.

69865 104-105

ergo.® 4052 thread-lock, medium strength.

Type

Excellent media and heat resistance. Setting at low temperatures is even possible without activator. NSF and DVGW approval.

Use

Suitable for stainless, passivated, and galvanised screws. Thanks to its higher viscosity, the glue can also be applied to larger gaps.

69865 106-107

ergo.® 4101 thread-lock, high strength.

Type

High-strength connection on heavily-stressed thread and cylindrical parts. Medium viscosity permits universal use. Increased media resistance. NSF approval.

Use

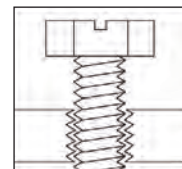
Fixing pin bolts, ball and roller bearings in sliding seats. Especially suitable for heavy-duty screw connections.

Note:

ergo.® supporting products for anaerobic glues see cat.-no. 69875.

69865 104-105

Type	Contents g	69865	...
4052 medium-strength	50		104
4052 medium-strength	250		105
4101 high-strength	50		106
4101 high-strength	250	#	107



69866

ergo®. The anaerobic glue for sealing**ergo®.****Note:**

ergo® supporting products for anaerobic glues see cat.-no. 69875.

69866 101

ergo® 4202 Hydraulic seal.**Type**

Medium-strength product for sealing cylindrical and conical threaded connections to R 3/4 inch. Very good resistance against hydraulic liquids.

Use

For sealing all pneumatic and hydraulic fittings. For small fittings of all kind, up to cracking pressure.

69866 102+112

ergo® 4207 Pipe thread seal universal.**Type**

Neutral taste against water, drinks etc. Quick hardening even at temperatures below 0° C. Seals immediately at low temperature. Resistant against natural gas. DVGW approval, BAM approval.

Use

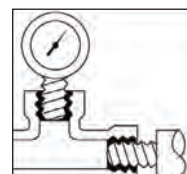
Seals all tapered or cylindrical pipe threads up to R 3 inch, e.g. in sprinklers and gas piping.

69866 103

ergo® 4253 Surface seal universal.**Use**

Quick-hardening, slightly flexible. Especially suitable for inactive materials. Thixotropic, therefore easy dosing, at the same time, good rigidity after application. **NFS approval.**

Type	Contents g	69866	...
4202 Hydraulic seal	50		101
4207 Pipe thread seal	50		102
4207 Pipe thread seal	250		112
4253 Surface seal	50		103



69866 101



69867

ergo®. The anaerobic glue for fastening**ergo®.****Note:**

ergo® supporting products for anaerobic glues see cat.-no. 69875.

69867 101

ergo® 4401, Joints, medium tight.**Use**

For mounting bearings in bushings or wheels on axes. Replaces mechanical retainers.

69867 202

ergo® 4430, Joints, very tight.**Type**

Very good hardening even when applied to passive metal surfaces. High strength when applied to cylindrical parts, such as bushings, bolts, gear wheels. Protects metals against corrosion.

NSF approval.**Use**

For mounting shafts, bearings, bushings, sleeves, gear wheels etc. in the state they are delivered.

69867 106

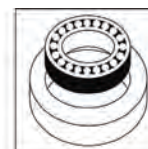
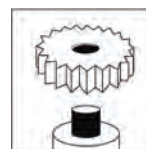
ergo® 4453, Joints, heat resistant.**Type**

Fast-hardening, high-strength and heat resistant product. Good resistance against acids, alkalis and water. KTW and DVGW approval, BAM approval. NFS listed.

Use

For mounting cylindrical live bushings in motor blocks and bearing fixtures in heat ovens. Good adherence to smooth surfaces.

Type	Contents g	69867	...
4401 Joint connection medium-strength	50		101
4430 Joint connection high-strength	50		202
4453 Joint connection heat-resistant	50		106



69867 101



69875

ergo®. Supporting Products for Anaerobic Glues**ergo®.**

69875 100

ergo® 4900 Activator.**Type**

For use in unfavourable hardening conditions. These could be, e.g., inactive surfaces, very large gaps, extreme roughness. ergo® 4900 facilitates, accelerates or enables complete setting of the adhesive in these cases. The Activator can be applied prior to applying the glue (on one side) or after (spray on the whole surface).

Note:

The activator insert reduces the achievable final strength by approx. 15%.

69875 101

ergo® 9190 multi-purpose cleaner.**Use**

With this special solvent mixture dirty or oily surfaces can be cleaned without leaving any residues. Perfect for the pre-treatment of surfaces.

Type	Contents g	69875	...
4900 Activator	100	#	100
9190 multi-purpose cleaner	500	#	101

69875 100



69875 101



69878

ergo® RTV Silicones

ergo®

Type

High-quality silicone sealant. Very temperature-resistant (up to +315 °C). Extreme resistant against chemicals. Hardening without acidic substances, therefore aluminium, iron and steel-friendly.

Use

Permanently elastic glue and sealants in electro-technical applications, automotive engineering, toolmaking, machine construction and precision mechanics.

69878 101-103

Type

In pressurised can: **The silicone evenly flows from the pressurised cans.** Thanks to the ingenious design of the double-wall pressurised can, the silicon does not come into contact with the propellant (environmentally compatible air mixture, and thus it remains ready for use for a longer period of time.

69878 104

Type

In the Euro-cartridge.

69878 101-103



69878 104



	Colour	Contents g	Contents ml	69878	...
Pressurised can	Black	256	-		101
Pressurised can	Transparent	208	-		103
Euro-cartridge	Transparent	332	310		104

69880

Silicone (acetate)

Type

Elastic remaining silicone sealant, avoids fungal growth, weather-resistant.

Use

Suitable for applications in accordance with IVD leaflet no. 3.

69880

	Colour	Contents ml	69880	...
Cartridge	transparent	310		101



69882

Silicone (neutral) can be painted over

Type

Elastic remaining silicone sealant, inhibits fungal growth. Excellent resistance to weather, ageing, and UV-radiation. **Neutral cross-linking, i.e. silicone can be painted over in accordance with DIN 52452.** In compliance with DIN 18545 part 2, stress group D and DIN 18540. LEED® conformant IEQ-Credits 4.1 adhesives and sealants.

Use

Suitable for applications in accordance with IVD leaflet no. 7 and 9.

69882

	Colour	Contents ml	69882	...
Cartridge	transparent	310		101



69890

Applicator Guns

69890 101

Type

Rugged serrated plunger for professionals, hardened plunger, black.

Use

For 310 ml cartridges.

69890 103

Use

For 400 ml silicone foil bags and 310 ml cartridges.

Note:

Air-pressure operated guns available on request.

69890 101



69890 102



69890 103



	69890	...
		101
		102
		103

Special Tools / PPE