



Ultrasound cleaning devices

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 nonferrous metals, plastics, glass, etc. (mechanical, electrical, 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 (micrometers), 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, pan, basket and lid made of stainless steel. Built-in heating system, controlled by means of a thermostat from 30°-85°C, with timer. 35 kHz ultrasound system.

Application

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 trays made of cavitation-proof special steel. High-performance thanks to additional oscillating systems. 2 cleaning levels, high heating power for shorter heating times, dry-run-proof heating system. Convenient handling thanks to removable non-heating apparatus cable. Quick-drain with welded piping, splash-proof control unit. Timer for ultrasound, from 0-15 min. and permanent operation. Heater adjustable from 30°-80°C.

Note:

Accessories available on request. Concentrated cleaning detergents for ultrasound cleaning devices see cat.-no. 69010 - 69014.

69005 201



69006 101



69005 202



69006 104



69005 203



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



• Concentrated cleaning detergent • Cleaning detergents

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

Application

For cleaning purposes in electronics and optics environments. Especially suitable for cleaning PCB's and electro-mechanic components. Removal of flux remnants, fingerprints or dust. Dosage 3-10 %.

69012

Elma Tec Clean A3

Application

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

Application

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 compounding 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

Application

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



69040 High-power cleaning agent

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: in both workshops and industry. No damage effect on rubber, plastics and metals, therefore suitable for multi-purpose use.

Application

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.



69040 100



69040 201

Contents	69040	...
750 ml spray bottle	100	
10 l container	201	
200 l drum	203	

www.atorn.com



Performance requires quality.

- Adjustable wrenches by ATORN:
- innovative combination of materials
 - perfect feel
 - best resilience
 - exact adjustment

This is but one example of ATORN's high-quality hand tools.



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, more than 99%
- free of solvents
- non-etching
- neither flammable nor explosive
- no toxic vapours

Application

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).



69100 101



69100 102

Contents	69100	...
1 l spray bottle		101
5 l container		102
200 l drum		103

69153

HHW ÖKO-AIR cleaning agent Novaclean



Type

Heavy-duty cleaning fluid, in container with 5 litres for approx. 20 fillings, 10 litres for approx. 40 fillings, 25 litres for approx. 100 fillings.

Application

For cleaning and degreasing all kinds of surfaces (use oil for refinishing wood after use). Removes oil, fat, tar, bitumen and much more. **Very suitable for cleaning brakes.** Avoids blasting of dust when doing brake repair work.



69153

Contents	69153	...
Sprayer (empty)		101
5 l container		102
10 l container		103
25 l container		104

69165

Accessories for HHW ÖKO-AIR spraying products

69165 101

Adapter air gun without connector

Application

For re-filling the sprayer with air pressure.

69165 102

Special wrench

69165 103

Drain cock (ventilated)

For 5, 10, and 25 litre container.

69165 105

Spare part set, 5-part.



	69165	...
Air-fill pistol		101
Special wrench		102
Drain cock		103
Spare part set		105

69167

Scotch-Brite high-performance cleaning towels



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.

Application

For all surfaces. Clean dry, damp and wet.

69167



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

• Cleaning towels • Wall mount • Floor stand

69170

Cellulose towels



Type

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

Application

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

Dimensions of one towel approx. cm	69170	...
30 x 32		101



69170



69175

Paper cleaning towel rolls



Type

Blue, heavy-duty towel, tissue, embossed, perforated, with high tensile strength.

Thanks to the innovative line-type embossing, the separate plies are connected with each other so exactly, that the towels are especially thick, flexible, and have a high absorbency.

Application

Strong absorbency, quick and efficient pick-up of liquids. Get a dry surface within seconds.

Note:

Dispenser for rolls see cat.-no. 69190.

69175 101

Type Advanced 430

Type

2-ply, TAD quality, roll with 1000 towels.

69175 102

Type Advanced 420

Type

2-ply. Hybrid quality, roll with 1500 towels.

Dimensions of one towel approx. cm	69175	...
34 x 37		101
34 x 37		102

69175 101

69175 102



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.

Application

For cleaning towel rolls up to 43 cm.

Type	Dimensions of one towel approx. cm	H x W x D mm	69176	...
Cleaning towel rolls	24 x 34	-		101
Dispensing system	-	420 x 330 x 345		102



69176 101

69176 102



www.atorn.com



Performance requires quality.

Digital slide callipers by ATORN:

- high-quality materials
- maximum precision
- quick and reliable measuring results
- waterproof and with best resilience

This is but one example of ATORN's high-quality measuring tools.



69183 - 69184

Fleece cleaning towels



Note:

Dispenser for WiperPak boxes and bags see cat.-no. 69190 - 69195.

69183 101

Type Premium 520

Type

Grey, 1-ply, perforated, 390 towels, rolls WiperPak box.

Application

Good absorbency and tensile strength. For dry and wet cleaning. Soft, surface-friendly, fabric feeling. Allows for precise cleaning. Strong and quick absorption, can be used with any solvent.

69183 102

Type Premium 520

Type

Similar to cat.-no. 69183 101, but with 140 towels in bag.

69184 102

Type Premium 530

Type

Blue, 1-ply, perforated, 100 towels in bag.

Application

Heavy-duty cleaning towels with fabric feel. Also for working with strong solvents. Very high tensile strength, good absorbency. Embossed surface allows for quick absorption of oil. Thanks to the thickness, the hands are protected from metal chips. Heat-insulating.

69183 101



69183 102



69184 102



Type	number of towels pcs.	Dimensions per towel cm	69183	...	69184	...
WiperPak	390	32 x 38			101	
Bag	140	38,5 x 43			102	
Bag	100	38,5 x 43				102

69190 - 69195

Dispenser (empty) for cleaning towels



69190 100

Floor stand

Type

Made of anodised tubular steel.

Application

For cleaning towel rolls up to 43 cm roll width.

69190 101

Floor stand

Type

Made of metal/plastics, with wheels and holder for waste bags.

Application

For cleaning towel rolls up to 43 cm roll width.

69190 102

Wall mount

Type

Made of metal.

Application

For cleaning towel rolls up to 43 cm roll width.

69195

Rubbish bags 70 l.

Application

For cat.-no. 69190 101.

69195 101

Type

Blue, strong 18 µm HDPE, 50 pcs./roll.

69195 102

Type

Transparent green, very strong 50 µm LDPE, 25 pcs./roll.

69190 100



69190 101



69190 102



69195 101



Type	Dimensions H x W x D mm	69190	...	69195	...
Floor stand	870 x 510 x 520			100	
Floor stand	850 x 550 x 550			101	
Wall mount	250 x 510 x 350			102	
Rubbish bags	1000 x 575				101
Rubbish bags	1000 x 575				102



• Cleaning towels • Oil-binding substance • Caramba profi line

69200 - 69201 Cleaning towels/floor stand

69200 201
Fleece towels, coloured
Type
 High cotton content, approx. 415 towels.
Application
 For general cleaning jobs.

69200 203
Cellulose-fleece soft clothing roll
Type
 Extra-strong, white, approx. 500 towels. High wet-strength, good absorbency, solvent-resistant.
Application
 For all applications in which dust fibres must be prevented and high wet-strength is required.

69200 204+105
Multiclean cleaning paper roll, blue
Type
 High wet-strength.
Application
 For industry and trade, perfect for light and hard cleaning jobs.

69200 204
3-ply, embossing on the edge and inside, approx. 1000 towels.

69200 105
2-ply, point-to-point embossing, approx. 1000 towels. Pack = 2 rolls.

69 200 106
Type
 High-quality and strong 3-ply tissue cleaning towel, blue, bonded in layers. High absorbency and tensile strength. **Pack = 2 rolls.**
Application
 For cleaning and absorbing of dirt, oil, and fat.

69200 206
Polytex® wet-cleaning paper roll, blue
Type
 Washable, silicone-free, high tensile strength, fuzz-free, solvent-resistant, anti-static, approx. 500 towels.
Application
 For wiping and cleaning in the food industry, canteens, trade etc.

69201
Floor stand
Type
 Portable, with waste bag holder. Waste bag and cloths not included.
Application
 For cleaning towel rolls up to 42 cm roll width.

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



Dimensions of one Towel approx. cm	Cleaning fabrics		Floor stand	
	69200	...	69201	...
-			101	
415 towels 35 x 33	201			
500 towels 38 x 27	203			
1000 towels 35 x 37	204			
1000 towels 36 x 36	105			
500 towels 38 x 38	106	NEW		
500 towels 38 x 32	206			

69205 Moist cleaning towels

ZVG®
Type
 In dispensing bucket with approx. 72 cloths 25 x 25 cm.

Application
 For cleaning hands and surface e.g. tools, workbenches, without water. Also removes oil, glue, fat etc.

Bucket =	69205	...
approx. 72 pcs.		101



69210 Folding towel dispensers/folding towels

69210 201
Folding towel dispensers
Type
 Multi-purpose lock designThe special profile design of the dispenser guarantees an easy removal of the towels. The dispenser can be refilled very easily before it is empty. **Dimensions: 30,5 x 13,2 x 38,9 cm.**

quicker absorption. The folding procedure guarantees a controlled consumption and ensure that the user only touches the towel they remove. Allergy-tested

69210 202-203
Folding towels
Type
 Extra soft, hygienic, and with high tensile strength. Novel **LIM technology embossing** for better and

69210 202
Type
2-ply tissue, 3045 towels, white.
 Dimensions: 23,5 x 25,0 cm.

69210 203
Type
3-ply tissue, 1890 towels, bright white.
 Dimensions: 23,5 x 34,0 cm.



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

69215

Oil-binding substance

69215 101

Type

Quick-action and high absorbency. Made of 100% polyurethane granulate material, water-repellent.

Application

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.

Application

Especially suitable for emulsions of all kinds. Safely and securely absorbs chemicals, oils, grease, fuels and other dangerous liquids.

69215 101



69215 102



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

69220

PIG-STAR absorbing hoses

Type

8 cm thick, 122 cm long. Absorption approx. 2,85 litres per hose. 40 hoses in cardboard box.

Application

The clean solution- for a safe and environmentally friendly workplace. Absorbs oils, coolants and all non-aggressive hydrocarbons.

Example for application



69220



Carton =	69220 ...
40 pcs.	101

69225 - 69226

Oil-absorbing cloth and rolls



Application

Oil-absorbent cloths are effective and economical to use. The good absorbency properties of fleece ensure effective collection of **oil and other non-water-soluble chemicals** from the ground or from water. After 2 minutes, **the towel can absorb 12-x its own weight** and will float even when full. The clothes can be re-used after cleaning and can be stocked without problems. No arise of poisonous gases when recycling or burning, PP fleece is burning down without leaving almost no remaining particles.

69225

Oil-absorbing cloth, extra high absorbency 300 g/m², on roll, length approx. 46 m, width 40 cm.

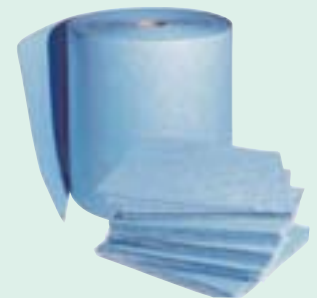
Note:

Suitable floor stand, mobile, see cat.-no. 69201.

69226

Oil-absorbing cloth, extra absorbent. 300 g/m², 100 towels, approx. 40 x 40 cm.

69225 - 69226



	Roll	Towels
	69225 ...	69226 ...
	101	201

69820

Caramba Super multi-purpose spray

Caramba

Caramba Super - The original multi-purpose spray

Rust penetrator, lubricant, contact spray, corrosion protection, cleaner. Very good lubricity under 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.

NEW



69820

Contents ml	69820 ...
500 aerosol can	101
5000 container	102

• Caramba profi line

69823

Caramba MoS₂

Caramba

Rust penetrator, lubricating and penetrating oil.
High lubricity under high pressure (VKA value: 1.200N = equivalent to approx. 120 kg). Temperature-resistant from -40°C - +450°C, suitable for ultra-

high vacuum. Perfect lubrication for dry conditions, silicone-free.

NEW

69823



Contents	69823	...
ml		
500		101

69826

Caramba Express contact spray

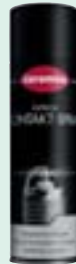
Caramba

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.

NEW

69826



Contents	69826	...
ml		
500		101

69829

Caramba Aktiv leak detector spray

Caramba

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 compliance with DIN 14291. **Not suitable for oxygen pipes.**

NEW

69829



Contents	69829	...
ml		
500		101

69832

Caramba silicone spray

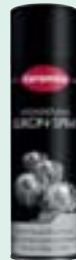
Caramba

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.

NEW

69832



Contents	69832	...
ml		
500		301

69833

Caramba PTFE spray

Caramba

Multi-purpose lubrication and protection product with synthetic basis. Very good dry-film and emergency running characteristics, very good lubricity under high pressure (VKA value: 1.600N = equivalent to approx.

160 kg). Resistant against chemicals, not electroconductive, 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.

NEW

69833



Contents	69833	...
ml		
500		101

69835

Caramba Rasant high-performance rust penetrator

Caramba

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

NEW

69835



Contents	69835	...
ml		
500		101

69838

Caramba high-performance welding protection spray

Caramba

Nirosta. Tested in compliance with DIN 8572.

Protects against weld spatter, prevents damage to workpieces - non-flammable propellant for safe welding in hollow spaces. Perfect application for arc and inert gas welding of steel, aluminium, and

NEW



69838

Contents	69838	...
ml		
400		101

69841

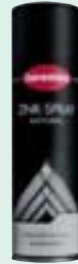
Caramba zinc spray (dull grey)

Caramba

Dried coating contains 98% pure zinc. Dust-dry after approx. 10 minutes, dry to touch after approx. 20-30 minutes.

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). Recoatable, temperature-resistant up to +600°C.

NEW



69841

Contents	69841	...
ml		
500		101

69842

Caramba zinc spray (bright aluminium)

Caramba

Wear-resistant and recoatable. Temperature-resistant up to +200°C. Dust-dry after approx. 10 minutes, dry to touch after approx. 20-25 minutes.

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).

NEW



69842

Contents	69842	...
ml		
500		101

69844

Caramba high-performance copper paste/copper spray

Caramba

plug connections, and flanges, which are subjected to high temperatures. **Not suitable for ABS and ESP systems.**

Protective and sliding coating, humidity-resistant. No sintering, seizing up, scaling, or fusing. For lubrication connections of pipes, flanges, exhaust pipes, combustion chambers, etc. Good lubrication and adhesion even under high pressure (VKA value in compliance with DIN 51350: 5.000N). Efficient protections against wear and corrosion. Silicone and acid-free, no resinification. Temperature-resistant from -30°C - +1.100°C. Lubrication of screw joints,

NEW



69844 301

69844 101

Contents	Contents	69844	...
g	ml		
200	-		101
-	500		301

69847

Caramba Intensiv heavy-duty cleaner

Caramba

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 of machine parts, surfaces, steel cables, gear wheels, etc.

NEW



69847

Contents	69847	...
ml		
500		101

6

• Caramba profi line • Multi-purpose spray • Ballistol spray

69848

Caramba Aktiv stainless steel cleaner

Caramba

Cleaning and protection for all metallic surfaces inside and outside. Removes dirt, limescale, surface rust, fat, oil, and resin. Suitable for stainless steel, aluminium, copper, and brass, perfect tarnish

prevention, anti-static, NSF tested – approved for the use in food-handling areas.

NEW



69848

Contents	69848	...
ml		
500		101

69849

Caramba brake and parts cleaner

Caramba

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.

NEW



69849 101

Contents	69849	...
ml		
600		101

69850

Multi-purpose spray WD-40

WD-40

Type

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

WD-40 is silicone-free and resin-free. It penetrates rust, loosens joints and seized car and machine parts etc. Removes tenacious dirt, repels water from electrical contacts and prevents creepage current. WD-40 creates a thin protective layer, which prevents the formation of moisture and rust on metal parts.

69850 101
Aerosol can, contents 250 ml.

69850 202
Aerosol can, contents 400 ml.

69850 102
Smart Straw can
Type
If the tube is folded, the valve sprays covers a larger area, if it is unfolded, it sprays precisely. No more searching for and attaching the tube. Contents 450 ml.

69850 203
Container, contents 5 litres.

69850 204
Hand sprayer
Perfect for dosing and distributing WD-40. **Empty**. Contents 500 ml.

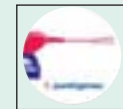
69850 101



69850 102



69850 202



69850 203



69850 204



Contents	69850	...
250 ml		101
400 ml		202
450 ml		102
5 ltr.		203
Vaporiser (empty)		204

69855

Ballistol spray (multi-purpose oil)

Type

Multi-purpose use. Forms an alkaline protective film on metals, neutralises sweat and other acidic residues which promote rust. Thanks to its low surface tension and enormous penetrating ability, even the most narrow angles and finest cracks in metal can be treated. Free of resins and acids, non-ageing, CFC-free, biologically degradable and not harmful to the environment. **Absolutely not harmful to the skin and food safe.**

Application

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	69855	...
ml		
200		101

69855



▶ 69860 - 69875 ergo® glue systems



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

	wood/leather	balsa wood/cork	metal	ABS	PVC	PMMA	GRP	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 wood/ 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

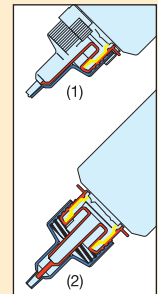
Turn and dose closure

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 clotted 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® cyanacrylate instant adhesives



ergo® Cyanacrylate second's action glues are one-component products based on cyanacrylic acid esters, which harden when exposed to air humidity. ergo® Cyanacrylates are mainly used for glueing 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. Please ask for the safety information and the technical information data sheets. Please heed the warnings on the containers.

▶ 69861 ergo®. The revolutionary SmartPen®



Clever gluing with SmartPen®.

Precise and perfect:

The ergo. SmartPen® is a world first. SmartPen allows you to glue with utmost precision, easily, and always with the correct dosage. In combination with our twist and proportion lock, it makes all glueing jobs quick, easy, and efficient. With a touch of the hand!

Clever gluing. Unparalleled precision and convenience. SmartPen®.



• Glues

69860 - 69861

ergo: Cyanacrylate instant adhesives

ergo:

69860 101 + 69861 101

ergo.®5011 Universal

Type

Quick-hardening standard glue with medium viscosity for multi-purpose use: plastics, rubber, metal, cloth, leather, wood, ceramic, etc. NSF approval.

69861 101

Type

With SmartPen®.

69860 102

ergo.®5039 Universal-Gel

Type

A characteristic of instant adhesive gel are the consummate flowing characteristics, which make it perfect for the use on vertical surfaces, large workpieces, or porous, absorbing materials: wood, cloth, cork, leather, plastics, ceramic, 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 Aktivator

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 multi-purpose	20	-	101	
5011 multi-purpose with SmartPen	30	-		101 NEW
5039 multi-purpose gel	20	-	102	
5925 elastomer	20	-	203	
5925 elastomer with SmartPen	30	-		103 NEW
5210 metal	20	-	204	
5014 multi-purpose with SmartPen	30	-		106 NEW
5100 Aktivator	-	150	107	

► **ergo.® Anaerobic glues and sealants**

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 glueing metals.

ergo.® products are available in different strength classes and therefore ensure reliable bonds of the desired strength without additives. Heat and/or the Aktivator can speed up the hardening process.

Safety advice:

In case of skin contact, at once wash thoroughly with soap and large amounts of water and see a physician. Please ask for the safety information and the technical information data sheets. Please heed the warnings on the containers.



69865

ergo:The anaerobic glue for securing joints

ergo:

Note:

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

69865 104-105

ergo.®4052 threadlocker, medium-strength.

Type

Excellent media and heat resistance. Hardening possible without the Aktivator, even under cold temperatures. NSF and DVGW approval.

Application

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

69865 106-107

ergo.®4101 threadlocker, high-strength.

Type

High-strength connections for heavy-duty thread connections and cylindrical parts. Medium viscosity for multi-purpose use. Increased chemical resistance. NSF approval.

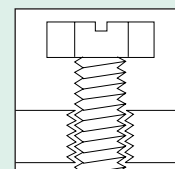
Application

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

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 sealing.

Type

Medium strength for sealing cylindrical and tapered thread connections up to R 3/4 inch. Very good resistance against hydraulic liquids.

Application

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

69866 102+112

ergo® 4207 pipe thread sealing Universal.

Type

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

Application

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

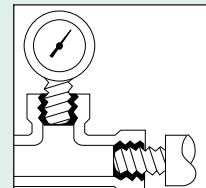
69866 103

ergo® 4253 surface sealing Universal.

Application

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	69866	...
	g		
4202 hydraulic sealing	50	101	
4207 pipe thread sealing	50	102	
4207 pipe thread sealing	250	112	
4253 surface sealing	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 join connection, medium strength.

Application

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

69867 202

ergo® 4430 join connection, high-strength.

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.**

Application

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

69867 106

ergo® 4453 join connection, heat-resistant.

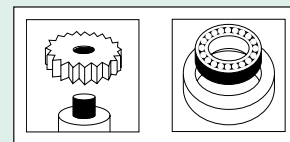
Type

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

Application

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

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



69867 101



69875

ergo: Supporting products for anaerobic glue

ergo®

69875 100

ergo® 4900 Aktivator.

Type

For use in unfavourable hardening conditions. These could be, e.g., inactive surfaces, very large gaps, extremely roughnesses. ergo® 4900 favours, quickens, or makes possible the complete hardening of the glue in the above-mentioned cases. The Aktivator can be applied prior to applying the glue (on one side) or after (spray on the whole surface).

Note:

When the Aktivator is used, the final strength will be reduced by approx. 15%. @Fließ fett:

69875 101

ergo® 9190 multi-purpose cleaner.

Application

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

69875 102

ergo® 9150 glue remover.

Type

After a certain amount of time after application the glue will swell and can then be removed mechanically.

Application

For removing still-liquid glue from surfaces or for dissolving hardened glue.

Type	Contents	69875	...
	g		
4900 Aktivator	100	100	
9190 multi-purpose cleaner	500	101	
9150 glue remover	1000	102	



69875 101



69875 102



• Silicone • Craftsman's Guns

69878

ergo: RTV silicone

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.

Application

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 flows evenly from the handy pressurised cans.** Thanks to the ingenious double-walled design, the silicone does not come into contact with the expanding agent (environmentally friendly air mixture) and therefore has a longer service life.

69878 104

Type

In Euro cartridge.

69878 104

69878 101-103



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

69880

Silicone (acetate)

HHW

Type

Elastic remaining silicone sealant, avoids fungal growth, weather-resistant. In compliance with DIN 18545 part 2, stress group D.

69880

	Colour	Contents		69880	...
		ml			
Transparent		310	cartridge		101



69882

Silicone (neutral) paintable

HHW

Type

Silicone sealant, remains elastic, avoids fungal growth, weather-resistant, **neutral basic, that means it can take paint in compliance with DIN 52452.** In compliance with DIN 18545 part 2, stress group D, and DIN 18540.

69882

	Colour	Contents		69882	...
		ml			
Transparent		310	cartridge		101



69890

Craftsman's guns

69890 101

Type

Rugged serrated plunger for professionals, hardened plunger, black.

Application

For 310 ml cartridges.

69890 102

Type

Rugged smooth plunger with open end, orange.

Application

For 310 ml cartridges.

69890 103

Application

For 400 ml silicone foil bags and 310 ml cartridge.

Note:

Air-pressure operated guns available on request.

69890 101



69890 102



69890 103



	69890	...
	102	
	103	