FOR ALL AREAS OF ELECTRICAL ENGINEERING

CRAMOLIN-QUALITY FOR MAINTENANCE, REPAIR AND OVERHAUL



BOOSTER

I SCREEN

PLASTIK



PROVEN AND IN DEMAND FOR DECADES



EXPERIENCE IS THE KEY TO SUCCESS

CRAMOLIN has stood for quality in the development and manufacture of products for the production, maintenance and assembly of electrical systems and devices for more than 50 years. Much has changed in the field of electronics over the years, but the products of CRAMOLIN are still first choice with service technicians, production managers and in customer service. This is because price and quality are right. The most important thing is CRAMOLIN's motto: Solution at the push of a button.



CERTIFICATION BREEDS CONFIDENCE

Quality at CRAMOLIN is more than just a marketing slogan. All our company processes are certified by the German Industrial Standards Institute (DIN). This gives users the guarantee that our products meet high standards and are safe to use. This is signed and sealed.



ITW: EXTENDED COMPETENCE

CRAMOLIN is a brand name fostered by the major international ITW company. It unites many top companies in the fields of technology and industry. For customers this means concentrated resources in the areas of manufacture, research, procurement and sales. With advantages in the quality, practicality, product documentation, availability and price. Our strengths are ultimately your benefits.



CRAMOLIN: SOLUTIONS FROM RESEARCH TO PRODUCTION

Every electrical engineering technician is familiar with the classic CRAMOLIN spray can containing 200 or 400ml. CRAMOLIN products are also being used increasingly in production. CRAMOLIN also delivers bulk containers especially for this purpose. These are also useful for economically minded people in the areas of maintenance, repair and service.



SAFETY IS A HUGE PRIORITY

Application safety and work safety are in good hands with CRAMOLIN. Material safety data sheets and technical data sheets are available on the Internet at www.itwcp.de and print them out if necessary. It leaves no detailed questions open. No other manufacturer offers more.



ENVIRONMENTAL PROTECTION – A PART OF OUR PHILOSOPHY

Chemical substances must be handled responsibly. CRAMOLIN ensures that the raw materials are largely environmentally-friendly. An active ingredient which has little or no harmful effect is used wherever possible. CRAMOLIN develops and researches for the preservation and protection of our natural environment.

CLEANER

CLEANER

Universal deaner for electronics.

The effect of CLEANER is based on very high quality, effective and specially mixed solvents. CLEANER evaporates quickly and leaves no residue behind. CLEANER can be used universally thanks to its special formulation of ingredients.

CLEANER	
Colour	Colourless, clear
Smell	Alcohol
Density	0.67g/cm ³
Evaporation	Rapid
Residue	None
Compatibility	
with plastic	Good
Surface tension	22mN/m
Container sizes	200ml, 400ml
Quantity/box	12 spray cans
	200ml,
	12 spray cans
	400ml
Art. No. 200ml	1021411
Art. No. 400ml	1021611



CONTACLEAN	CD CLEANER	ISOPROPANOL	TUNER
Highly effective, oxide and sulphide dissolving contact cleaner.	Cleaning of DVDs, CDs and CD drives.	Mild, universal deaner with a purity of >99.9%.	Special deaner for enter- tainment electronics.
CONTACLEAN effectively eliminates oxide and sulphide layers from all kinds of metal surfaces. At the same time our special ingredients provide a lasting lubrication and corrosion protection. Contact resistances which result in failures are reduced. Without voltage drops. Preservation of the perfect operational reliability of all electronical contacts.	CD CLEANER is a mild cleaner for the reliable removal of fingermarks, nicotine, dirt and grease stains. Because of its character it also removes grease and oil as well as layers of dirt reliably. For optimum digital reproduction both the laser head and the CD/DVD or Blu-ray disc have to be cleaned. Thanks to its low surface tension and perfect solvent combination, CD CLEANER penetrates deeply into the dirt, dissolves it and restores the reproduction for a perfect digital sound. It has an excellent material compatibility and evaporates totally without leaving any residue.	ISOPROPANOL is a mild, universally applicable cleaner for the reliable removal of dirt and grease. Because of its character it removes both grease and oil as well as ionic contamination. It does not attack most common materials and evaporates totally without leaving any residue within a very short time.	TUNER cleans effectively, reliably and without harming electrical devices and modules. Residues such as dust, greasy dirt, nicotine etc. can be removed without effecting the electrical capacitance and frequency values. Due to the low surface tension the solvents penetrate deeply into surfaces. TUNER dries rapidly and leaves no residue behind.
CONTACLEAN	CD CLEANER	ISOPROPANOL	TUNER
Colour Reddish Smell Characteristic Density 0.73g/cm³ Reduction of the contact resistance resistance < 2m Ω	ColourColourless, clearSmellAlcoholDensity0.79g/cm³EvaporationRapidResidueNoneMaterialcompatibilitycompatibilityVery goodPurity99.9%Container sizes200mlQuantity/box12 spray cans 200mlArt. No. 200ml1421411	ColourColourless, clearSmellAlcoholDensity0.78g/cm³EvaporationRapid, completeResidueNoneMaterialcompatibilitycompatibilityVery goodPurity99.9%Container sizes200ml, 400ml,1111Quantity/box12 spray cans200ml, 400ml,12 cans 11Art. No. 200ml4021411	ColourColourless, clearSmellCharacteristic freshDensity0.67g/cm³EvaporationRapidResidueNoneSurface tension19mN/mCompatibility with plasticVery goodContainer sizes200mlQuantity/box12 spray cans 200mlArt. No. 200ml1041411
Art. No. 200ml 1011411 Art. No. 400ml 1011611	Art. NO. 200MI 1421411	Art. No. 200ml 4021411 Art. No. 400ml 4021611 Art. No. 11 402841	Art. NO. 200MI 1041411

CLEANER

SPRAYWASH

Spraywash for cleaning soiled contacts and components.

SPRAYWASH consists of a highly effective combination of solvents for the effective removal of coats of dirt or grease and oxidized layers. Good creep and flow properties lead to dirt being washed away easily when used properly. SPRAYWASH does not attack most common materials and evaporates quickly without leaving any residue.

SPRAYWASH	
Colour	Colourless, clear
Smell	Alcohol
Density	0.75g/cm ³
Evaporation	Medium
Residue	None
Compatibility	
with plastic	Good
Container sizes	200ml, 400ml
Quantity/box	12 spray cans
	200ml,
	12 spray cans
	400ml
Art. No. 200ml	1051411
Art. No. 400ml	1051611



PROTECTIVE AND LUBRICATING AGENTS

DEGREASER

FLUX-OFF

Very effective cleaner, removes grease and oil.

The special mixture of solvents in DEGREASER guarantees a fast and reliable removal of grease and oil. The product works equally and effectively against wax and other heavy contamination. DEGREASER also is moisture-/water repellent.

Effectively removes residue solder from printed circuit boards.

RUX-OFF is a mild but effective cleaner which removes even stubborn solder flux residues without any problems. It makes no difference whether the flux is rosin based or water-soluble. FLUX-OFF is colourless and leaves no residue behind. It does not attack the most common materials. However, you should avoid using it on PVC and polystyrene. Also available with a brush for intensive cleaning.

TOP-PIN

Protection for ensuring the function of plug contacts.

TOP-PIN is the protection agent and lubricant for ensuring the function of all contacts. especially precious metal-plated plug contacts. It offers good lubricating and corrosion protection properties based on synthetic active ingredients. Damage to precious metal layers is prevented; there is no corrosion of non-precious base metals. The protective film of TOP-PIN has a lubricant effect, is very thin and resistant to heat.

SILICONE

Viscous, highly effective insulating and lubricating oil.

SILICONE is a high-quality, viscous insulating oil with a dielectric strength of 12kV/mm. It does not dry out, is water-repellent and therefore suitable as a moisture barrier. SILICONE is also a good universal lubricant. It is resistant within a wide temperature range of -50°C up to +200°C, does not attack the most common engineering materials and is non-toxic.



DEGREASER

Colour	Colourless, clear
Smell	of solvent
Density	0.83g/cm ³
Evaporation	Medium
Residue	None
Material	
compatibility	Good
Container sizes	200ml, 400ml
Quantity/box	12 spray cans
	200ml,
	12 spray cans
	400ml
Art. No. 200ml	1061411
Art. No. 400ml	1061611



FLUX-OFF

Colourless, clear
Mild
0.84g/cm ³
Residue-free
Very good
22mN/m
200ml, 400ml
12 spray cans
200ml,
12 spray cans
400ml
1071411
1071611



TOP-PIN Colour Yellowish Smell of solvent Density 0.67g/cm3 Temperature resistance (film) up to +300°C Corrosion 4 cycles (DIN IEC 68) protection Lubricity under pressure Very good Container size 200ml Quantity/box 12 spray cans 200ml

Art. No. 200ml 1101411



SILICONE

Colour	Colourless, clear
Smell	Typical mild
Density	0.97g/cm ³
Viscosity (oil)	1,000mm²/s
	(25°C)
Temperature	
resistance	-50° to +200°C
Dielectric	
strength (oil)	12kV/mm (20°C)
Material	
compatibility	Very good
Container sizes	200ml, 400ml
Quantity/box	12 spray cans
	200ml, 400ml
Art. No. 200ml	1121411
Art. No. 400ml	1121611

PROTECTIVE AND LUBRICATING AGENTS

SPRAYOIL

Multifunctional lubricating oil and corrosion protection.

SPRAYOIL is a highly effective, low viscosity, acid free lubricant showing very good emergency running properties. The lubricating film is resistant and does not become gummy. It also has a water and moisture repellent effect and therefore gives lasting and reliable corrosion protection. SPRAYOIL is effective within a wide temperature range of -40 °C to +170 °C. Meets the requirements of standard ISO VG 10.

SPRAYOIL	
Colour	Yellowish
Smell	Typical mild
Density	0.78g/cm ³
Viscosity (oil)	10mm ² /s
	(40°C)
Pour point	-57°C
	(DIN ISO 3016)
Material	
compatibility	Good
Temperature	-40°C
resistance	up to +170°C
Container sizes	200ml
Quantity/box	12 spray cans
	200ml
Art. No. 200ml	1111411



SPRAYFLON	VASELINE	PROTECTION	MULTI
Grease-free <mark>, PTFE-</mark> based lubricant and mold release agent.	Effective lubricant, good corrosion protection.	Lubricant and corrosion protection for contacts.	Multifunctional oil dissolves rust, deans, repels water, protects and lubricates.
SPRAYFLON is a highly effective dry lubricant on PTFE basis. It offers a low friction coefficient and has anti-adhesive proper- ties on plastic, glass, metal, wood or other materials. SPRAYFLON is resistant within a wide temperature range of -100 °C up to +250 °C, stable against chemicals, electrically insulating and enables clean working.	VASELINE consists of a high purity, white Vaseline which can be applied easily in the available spray form. It is totally acid-free and therefore guarantees an effective corrosion protection. It also offers excellent lubricating properties which can be used universally. VASELINE is chemically neutral towards all materials.	PROTECTION contains a combination of active ingredients for lasting prevention of wear and corrosion on metal contact surfaces. The treated parts are coated with a stable, micro-fine film which ensures good lubricant and corrosion protection properties. PROTECTION is suitable for all contact metals and does not attack the most common engineering materials.	Multifunctional combination of active ingredients for solving problems in industry and in the workshop. MULTI repels water, prevents corrosion, dissolves rust, cleans, lubricates moving parts, eliminates squeaking, starts wet engines and guarantees continuous functioning. MULTI does not attack rubber, plastics, textiles and lacquers and contains no harmful substances.
SPRAYFLON	VASELINE	PROTECTION	

SPRA	YFLON
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Colour	Whitish
Smell	of solvent
Density	0.72g/cm ³
Material	
compatibility	Very good
Temperature	
resistance	up to +250°C
Container sizes	200ml
Quantity/box	12 spray cans
	200ml
Art. No. 200ml	1131411



Colour	White
Smell	of solvent
Density	0.73g/cm ³
Material	
compatibility	Very good
Skin compatibility	Very good
	(DAB 10)
Solidification	approx. +53°C
point	(DIN ISO 2207)
Container sizes	200ml
Quantity/box	12 spray cans
	200ml
Art. No. 200ml	1141411



PROTECTION	
Colour	Bluish
Smell	Alcohol
Density	0.73g/cm ³
Material	
compatibility	Very good
RK value increase	
after treatment	Max. 1mΩ
Viscosity	67.4mm ² /s
Pour point	-9°C
Container sizes	200ml, 400ml
Quantity/box	12 spray cans
	200ml,
	12 spray cans
	400ml
Art. No. 200ml	1151411
Art. No. 400ml	1151611



MULTI	
Colour	Yellowish, slightly
	turbid
Smell	Vanilla
Density	0.81g/cm ³
Viscosity (oil)	30-35 mm ² /s (40°C)
Corrosion	up to 500 h
protection	(salt spray test)
Lubricity	up to 790kg (Falex)
Container sizes	200ml, 400ml,
	51, 201
Quantity/box	12 spray cans
	200ml, 400ml,
	4 canisters 5I,
	1 canister 20I
Art. No. 200ml	1161411
Art. No. 400ml	1161611
Art. No. 5I	116854
Art. No. 201	116860
Art. No. 200ml Art. No. 400ml Art. No. 5l	200ml, 400ml, 4 canisters 5I, 1 canister 201 1161411 1161611 116854

PROTECTIVE AND LUBRICATING AGENTS

KABELGLIDE

Lubricant for pulling in cables and wires.

KABELGLIDE is a high-grade lubricant for pulling cables and wires easily through electric installation tubes. The 70 cm long, flexible extension tube delivered with KABELGLIDE is simply fixed to the spray nozzle and guarantees easy spraying of the inside walls of installation tubes. KABELGLIDE does not dry out, is water-repellent and therefore suitable as a moisture buffer. It is resistant within a wide temperature range of -50 ℃ up to +200 ℃, does not attack plastics and construction materials and is non-toxic.

KABELGLIDE	
Colour	Colourless, clear
Density	0.97g/cm ³
Viscosity (oil)	1,000mm²/s
	(40°C)
Temperature	-50°C
range	to +200°C
Container sizes	400ml
Dielectric	
strength	12kV/mm
Material	
compatibility	Very good
Quantity/box	12 spray cans
	400ml
Art. No. 400ml	1511611



KABEL-GEL	PROLUB	ANTIKORR	MOLD RELEASE AGENT 99
Pulling in cables made easy.	Cleaning, protection and lubricating agent for electrical installations.	Highly effective, active corrosion protection oil.	Silicone-free solution for separating rubber and plastic parts.
KABEL-GEL is a silicone-free lubricant which makes pulling cables and wires into electrical installation tubes and ducts easier and faster. KABEL-GEL does not stick, does not dry out and helps to avoid damage to cable and wire sheaths. KABEL-GEL does not attack plastics and the most common engineering materials and is biodegradable.	PROLUB is a mixture of high quality, active ingredients especially for preventing and eliminating defects in electrical installations caused by moisture corrosion, soiling or friction. Thanks to its low surface tension and excellent creep properties, PROLUB also reaches places of difficult access and penetrates into finest surface pores and gaps where it seals out moisture.	ANTIKORR combats moisture, repels water and protects against corrosion even under the harshest environmental conditions. Due to the low surface tension and excellent creep properties, ANTIKORR also reaches places of difficult access and penetrates into the finest surface pores and gaps. The remaining film is practically invisible and does not need to be removed in most cases for further processing of the parts (except lacquering).	MOLD RELEASE AGENT 99 is a silicone-free mold release agent based on polyethylene glycol for forming plastics and rubber. It covers the entire mold and gives the rubber and plastic parts an attractive surface appearance. MOLD RELEASE AGENT 99 also serves for moisture and as a release agent for the often difficult forming of foam rubber parts. It does not attack rubber and plastics and is not harmful or irritant.
KABELGEL	A ROLUB	Complies with Mil. Spec.: C-81309E, C-372C, AA-50493, 0-W-1284B	
KABEL-GEL Colour Colourless, clear	PROLUB Colour Brownish	ANTIKORR Colour Blue-green	MOLD RELEASE AGENT 99 Colour Colourless, clear
ColourColouriess, clearDensity0.99g/cm³Temperatureresistanceup to +82°CViscosityGel-likeContainer sizes1,050mlQuantity/box12 bottles1,050ml	ColourBrownishSmellCharacteristic mildDensity0.82g/cm³Viscosity3mm²/s (20 °C)Temperature range -40° to +150°CDielectric(VDE 0303)strength31.5kV/mmContainer sizes200ml, 400ml,5 l, 20l20pml, 400ml,Quantity/box12 spray cans200ml, 400ml,4 canisters 5l,	ColourBite-greenDensity0.80g/cm³Viscosity3 mm²/s (20 °C)Temperatureresistanceup to +150°CLubricityup to 790kgContainer sizes200ml, 400ml,5l, 20l5l, 20lQuantity/box12 spray cans400ml,4 canisters 5l,1 canister 20l	ColourColouriess, clearSmellCharacteristicDensity0.89g/cm³ViscosityLow viscousFlashpointapprox. 13°CPropertiesSilicone-freeContainer size101Quantity/box1 Canister 101

Art. No. 1,050ml 154841

Art. No. 400ml Art. No. 5l

Art. No. 201

1631611

163854

163860

Art. No. 10I

801880

11

LACQUERS

PLASTIK

Clear lacquer for insulating and sealing.

PLASTIK contains a high quality acrylic resin lacquer. It coats surfaces with a protective film which is resistant to acids, alkalis, alcohols, moisture and adverse environmental influences. PLASTIK is resistant within the wide temperature range of -70 ℃ up to +120 ℃. The lacquer adheres to metal, plastic, wood, cardboard, glass, etc. It does not drip and permits soldering through its own layer. PLASTIK contains a UV indicator for quality control. PLASTIK meets MIL-I-460580 "Type Acrylic Resin".

PLASTIK

Colour	Transparent
Smell	of solvent
Density	0.88g/cm ³
Surface	
resistance	5 x 10¹⁴Ω
Contact	
resistance	10 ¹⁴ Ω/cm
Dielectric	
strength	21kV/mm
Leakage current	
resistance (CTI)	> 600 Q
Temperature	
resistance (Class E	-70°C
acc. to VDE 0360)	up to +120°C
Container sizes	200ml, 400ml,
	11, 51, 201
Quantity/box	12 spray cans
	200ml, 400ml,
	12 cans 1I,
	4 canisters 5l,
	1 canister 20I,
	1 barrel 2001
Art. No. 200ml	1201411
Art. No. 400ml	1201611
Art. No. 11	120841
Art. No. 5I	120854
Art. No. 201	120860
Art. No. 2001	1208701



URETHANE CLEAR	URETHANE RED	ISOTEMP	EMILAC
Special resistant protective and insulating lacquer.	Highly resistant, coloured insulating lacquer.	Very temperature resistant silicone insulating lacquer.	Effective shielding of electromagnetic influences.
URETHANE CLEAR is a single- component urethane lacquer for electronics. It offers high surface and contact resistances, good dielectric strength, low dielectric constant and loss factors. Resistant to moisture, dilute acids and alkalis, solvents and fungus attack. The film is elastic, wear and adhesion resistant, heavy duty and permits soldering through its own layer.	URETHANE RED is a single- component urethane lacquer for electronics. It offers high surface and contact resistances, good dielectric strength, low dielectric constant and loss factors. Resistant to moisture, dilute acids and alkalis, solvents and fungus attack. The film is elastic, wear and adhesion resistant, heavy duty and permits soldering through its own layer. Class B according to VDE 0360.	ISOTEMP is a heat, moisture and water resistant insulating lacquer. It retains its effect even at temperatures up to 500 °C. It is also flame retardant, highly adhesive and elastic. ISOTEMP is suitable for moisture sealing and for impregnation. The lacquer works well at room temperature and takes rapid effect.	EMILAC is a highly conduc- tive coating based on silver- plated copper particles for shielding against electro- magnetic waves. Protects against electromagnetic interferences (EMI) and electrostatic discharges (ESE). EMILAC is easy to apply and has a high stability even under adverse environmental conditions such as heat and moisture. It bonds well, does not attack materials and dries quickly.
EXA URETHANE	IN URETHANE		EMILAC
URETHANE CLEAR	URETHANE RED	ISOTEMP	EMILAC
$\begin{tabular}{ c c c c c } \hline Colour & Slightly yellowish \\ \hline Density & 0.80g/cm^3 \\ \hline Surface resistance & 2.5 x 10^{12}\Omega \\ \hline Contact resistance & 5.1 x 10^{14}\Omega \\ \hline Dielectric strength & 82.9kV/mm \\ \hline Temperature & -40^\circ C to +130^\circ C \\ range & Cl. B according to \\ VDE 0360 \\ \hline Container sizes & 200ml, 400ml, \\ & 1l, 5l \\ \hline Quantity/box & 12 spray cans \\ 200ml, 400ml, \\ & 12 cans 1l, \\ 4 canisters 5l \\ \hline \end{tabular}$	Colour Red, covering Density 0.80g/cm³ Surface resistance 1012Ω Contact resistance 8 x 1013Ω Dielectric strength 35kV/mm Temperature -40°C to +130°C range C. B according to VDE 0360 VDE 0360 Container sizes 400ml Quantity/box 12 spray cans 400ml 400ml	ColourYellowish, slightly turbidDensity (film)0.80g/cm³Dielectric strength110kV/mmContinuous-temperature-45°Cresistanceto +500°CSpec. contact7.5 x 10 ¹⁶ Ω/cmContainer sizes200ml, 11Quantity/box12 spray cans 200ml, 12 cans 11	ColourCopper colouredDensity0.60g/cm³Surface< 0.25 Ω/mm²
Art. No. 200ml 1211411 Art. No. 400ml 1211611 Art. No. 1I 121841 Art. No. 5I ¹⁾ 121854	Art. No. 400ml ¹⁾ 1651611	Art. No. 200ml 1221411 Art. No. 11 ⁽¹⁾ 122841	Art. No. 200ml 12 spray cans Art. No. 11 124841

LACQUERS

SPECIAL SPRAYS

POSITIV RESIST	ZINK	GRAPHITE	FREEZER-TOP/ FREEZER-BR
Photocopy lacquer for making printed circuits.	Ideal cold galvanisation for assembly and industry.	Graphite-based lubricant lacquer.	For thermal fault diagnosis, cooling up to -50 °C, non-flammable.
POSITIV RESIST is a light- sensitive coating for transfer ring lines, shapes and contours. The accurate copying of image elements on different materials is possible by a relatively simple technique. POSITIV RESIST ensures easy work, quick drying, good contrast and high sharpness.	ZINK is a quick drying, good covering, highly adhesive, heat and weather resistant long-term protection against rust and corrosion for exposed ferrous metals. The coating forms a resistant metal film and offers double protection by the refined artificial resin and by electromechanical reaction or cathodic effect of the zinc pigments. ZINK forms a conductive intermediate layer during welding and can be used as a primer for lacquering.	GRAPHITE is an easy to use lubricating lacquer based on colloidal graphite for producing good adhesive, conductive layers. GRAPHITE adheres very well to smooth surfaces such as glass and plastic. Layers of GRAPHITE are temperature- resistant up to 300 °C. The resistance is 1,000 to 2,000 Ω depending on the layer thickness.	REEZER TOP guarantees quick and reliable cooling down to -50 °C, does not burn, evaporates immediately and leaves no residue. REEZER TOP is compatible with all materials, the proven and reliable source of freezing for all areas of application. REEZER BR guarantees quick, reliable cooling down to -50 °C, evaporates immediately and without leaving any residue. FREEZER BR is compatible with all materials, the low cost source of freezing for standard applications.
POSITIVE RESIST	ZINK	GRAPHITE	FREEZER TOP/FREEZER BR
Colour Dark violet	Colour Dark grey	Colour Black-grey	Smell Odourless
Density 0.85g/cm ³	Density 0.95g/cm ³	Density 0.88g/cm ³	Dens. Freezer TOP 1.20g/cm ³
Drying time 30 - 60min	Drying time 30min grippable,	Drying time 24h	Dens. Freezer BR 0.54g/cm ³
(20°C) Light between 310	24h compl. dry Bend test No change in	Area resistance 1,000 to	Evaporation Complete
sensitivity and 440nm	(DIN 53152) the surface	2,000Ω	temperature at least -50°C
Max. between	Cross hatch	Operating -40°C to	Flashpoint
330 and 420nm	(DIN 53151) Gt 0 - 1	temperature +400°C	Freezer TOP Non-flammable Freezer BR < 0°C
Container sizes200ml, 11Quantity/box12 spray cans	Salt mist test (DIN 53167, DIN 50021) app. 600 - 800h	Container sizes 200ml Quantity/box 12 spray cans	Container sizes 200ml, 400ml
200ml,	Temperature up to +500°C	200ml	Quantity/box 12 spray cans
12 cans 11	resistance		200ml, 400ml
sprayable/	Container sizes 400ml		Freezer TOP
flingable	Quantity/box 12 spray cans 400ml		Art. No. 200ml 1301411 Art. No. 400ml 1301611
Art. No. 200ml1261411Art. No. 11126841SPArt. No. 11126841SC	Art. No. 400ml 1271611	Art. No. 200ml 1281411	Art. No. 400ml 1301611 Freezer BR Art. No. 200ml 1461411 Art. No. 400ml 1461611



SPECIAL SPRAYS

BOOSTER/ BOOSTER ALL-WAY

Extra-strong aerosol for very stubborn dirt – non-flammable

BOOSTER and BOOSTER ALL-WAY are extra strong, nonflammable pressurised gases for professional use wherever stubborn dusty contamination has to be removed reliably, thoroughly and safely. The unique technology ensures that the resulting pressure is four times that of normal compressed air sprays.

With the new valve technology the BOOSTER ALL-WAY can be used in any position, even upside down.



BOOSTER/BOOSTER ALL-WAY

Density	1.20g/cm ³
Pressure	5.3bar (+20°C)
Flashpoint	Non-flammable
Evaporation	Complete
BOOSTER	
Container sizes	500g
Quantity/box	12 spray cans
	500g
Art. No. 500g	1481711
BOOSTER ALL-W	AY
Container sizes	300g
Quantity/box	12 spray cans

Container sizes300gQuantity/box12 spray cans300gArt. No. 300g1491511



DUSTER TOP	DUSTER BR	GUNOIL	GLASSCLEAN
For cleaning at places of difficult access – non-flammable.	For cleaning at places of difficult access.	High quality lubricating, protection and cleaning oil.	For removing layers of dirt from glass, metal and plastic surfaces.
DUSTER-TOP releases high pressure, non-flammable, leaves no residues and does not attack the most common materials. The safe, proven way to remove dust.	DUSTER-BR releases high gas pressure, leaves no residues and does not attack the most common materials. The safe, proven way to remove dust.	CRAMOLIN GUNOIL is a high quality lubricating, protection and cleaning oil for all types of firearms. Its special formula makes GUNOIL highly effective.	GLASSCLEAN removes dirt, dust, nicotine, oil, grease and insect remains and fingermarks easily from all types of glass and plastic surfaces. The solid foam does not run off even on vertical surfaces and has an antistatic effect.
IN DUSTER	DUSTER	GUNOIL	GLASSOLEAN
DUSTER TOP	DUSTER BR	GUNOIL	GLASSCLEAN
SmellOdourlessDensity1.20g/cm³	SmellOdourlessDensity0.55g/cm³	ColourBlue-greenDensity0.89g/cm³	Colour White foam Smell Fruity
Pressure 4.8bar (+20°C)	Pressure 4.8bar (+20°C)	Viscosity 3mm ² /s	Density 0.90g/cm ³
FlashpointNon-flammableEvaporationComplete	HashpointFlammableEvaporationComplete	Lubricity up to 790kg Long-term	Foam stability Very good Several minutes
Container sizes 200ml, 400ml	Container sizes 200ml, 400ml	resistance up to 9 months	Material Very good with
Quantity/box 12 spray cans 200ml,	Quantity/box 12 spray cans 200ml,	Suitable for all kinds of firearms	glass and metal good compatibility with plastic
12 spray cans	12 spray cans	Heat resistance up to 150°C	surfaces
400ml	400ml	Container sizes200mlQuantity/box12 spray cans200ml	Container sizes400mlQuantity/box12 spray cans400ml
Art. No. 200ml 1311411 Art. No. 400ml 1311611	Art. No. 200ml 1471411 Art. No. 400ml 1471611	Art. No. 200ml 1171411	Art. No. 400ml 1401611

SPECIAL SPRAYS

SCREEN TFT/ SCREEN

SCREEN TFT is a foam cleaner for plasma and LCD screens with an antistatic effect.

SCREEN TFT is especially suitable for gentle but effective cleaning of modern flat screens. The stable cleaning foam does not run off even on vertical surfaces and removes even stubborn, greasy layers of dirt without smearing and without harming screen surfaces. SCREEN TFT is alcohol free and therefore indispensable in the office and at home.

SCREEN, the universal foam deaner for copiers, glass surfaces and screens.

SCREEN contains active solvent substances for removing layers of dirt on all types of glass surfaces. The active ingredients are bonded in a foam after spraying and do not run off. The antistatic effect considerably delays re-soiling. SCREEN cleans gently and thoroughly and without smearing.

SCREEN TFT/SCR	SCREEN TFT/SCREEN		
Colour	White foam		
Foam stability	Very good		
Material	Glas, metal, hardened		
compatibility	lacquers Unlimited Good, plastics such as acrylic		
	glass, polycarbonate,		
	ABS, PVC, polyamide		
SCREEN TFT			
Container sizes	200ml		
Quantity/box	12 spray cans		
	200ml		
Art. No. 200ml	1431411		
SCREEN			
Container sizes	200ml, 400ml		
Quantity/box	12 spray cans		
	200ml, 400ml		
Art. No. 200ml Art. No. 400ml ¹⁾	1321411 1321611		



ANTISTATIC	LABEL-OFF	POLISHER	PRINTER
Avoidance of electro- static charges.	Removes adhesive labels easily and reliably.	Cleaning and freshening up all types of plastic surfaces.	Easily removes ink, paper and toner residue.
ANTISTATIC effectively prevents electrostatic charges on plastics and textiles. It forms an invisible, ultra-fine film after spraying, which does not affect or harm the surface when used properly. ANTISTATIC provides highly effective, surface-active ingredients which have been developed and tested according to physical-chemical standards. ANTISTATIC considerably reduces the surface resistance.	LABEL-OFF makes it easy to remove adhesive paper- labels. The active ingredient penetrates the paper and neutralises the adhesive force of the glue. The residue adhesive can easily be wiped off with a cloth or piece of paper. Do not use on polystyrene or polyamide. It is recommended to test the effect on a small, invisible area if in doubt.	POLISHER is a high-quality caring agent which cleans and seals surfaces. The effect is not based on abrasive substances but on special, alcohol-free solvents and polishers. The treated parts look fresh again after use and stay looking good for a long time afterwards. The antistatic effect clearly delays re-soiling.	PRINTER contains an optimal mixture of solvents for removing ink and toner residue from inkjet- and laser-printers. Paper dust can be cleaned equally effectively from printer feed rollers. Annoying prob- lems with the paper feed are eliminated. The antistatic effect delays re-soiling. PRINTER does not attack the most common materials and evaporates without leaving any residue.
ANTISTATIC	ILABEL-OFF	POLISHER	PRINTER
ANTISTATICColourColourless, clearSmellFreshDensity0.59g/cm³MaterialcompatibilitycompatibilityVery goodTemperatureresistanceresistance-50°C to +220°CThermalExtremely highStabilityExtremely highContainer sizes200ml, 400ml,Quantity/box12 spray cans 200ml, 400ml,Art. No. 200ml1331411 1331611	LABEL-OFFColourColourless, clearSmellof orangesDensity0.69g/cm³EvaporationspeedMediumMaterial(except forcompatibilitypolystyrene,polyamide)GoodContainer sizes200ml, 400ml,11, 51200ml, 400ml,Quantity/box12 spray cans200ml, 400ml,12 cans 1l,4 canisters 51Art. No. 200mlArt. No. 111341611Art. No. 51")134854	POLISHERColourColourless, clearSmellof lemonDensity0.72g/cm³EvaporationspeedSpeedMediumMaterialcompatibilitycompatibilityGoodCleaningVery good for greasy, general, effect soiling, fingermarks, ballpoint pen inkContainer sizes200mlQuantity/box12 spray cans 200mlArt. No. 200ml1351411	PRINTERColourColourless, clearSmellof perfumeDensity0.69g/cm³EvaporationspeedspeedRapidCleaningVery good with grease, ink, toner and paper residueMaterialGoodcontainer sizes200mlQuantity/box12 spray cans 200mlArt. No. 200ml1361411

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