

PRODUCT CATALOGUE





AG Termopasty are your specialists in chemicals for electronics. We are a Polish manufacturer of chemical preparations, thermally conductive materials and maintenance and cleaning agents and products. Since 2007, we have been offering products that extend the the life of your devices, protecting and renewing them. For more than 15 years, we have guaranteed the quality and reliability that are the hallmark of our brand.

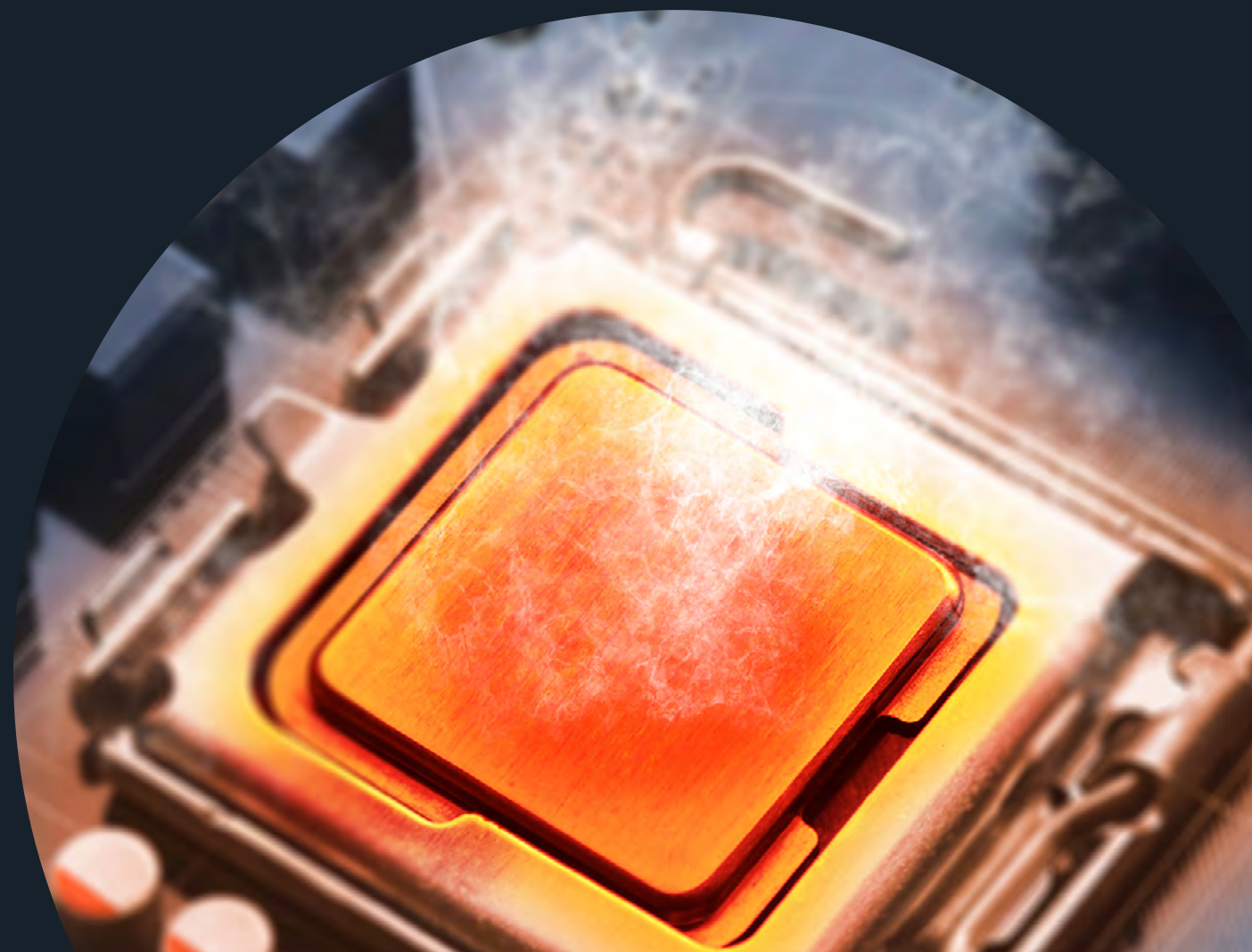
Let's take care of the perfect condition of your electronics together.





Main table of contents

ThermoConductivity	7
ElectroConductivity	25
Electronics maintenance	31
Hermetisation	51
Precision mechanics	71
Soldering and welding	89
Testers	109
Office	113
Detailed table of contents	130



ThermoConductivity





AG Extreme paste provides excellent conduction of heat between such elements as: a radiator discharging heat and a ventilator, CPU, GPU. The substance is a dielectric (it is not an electrical conductor), which protects against various electrical hazards. The application method ensures simplicity of use, and the product can easily be applied to various computer accessories and LEDs.

Application:

- fills micro-inequalities between the touching elements, e.g. processor and radiator;
- transfer of heat from the heat tube of the condenser to the exchanger in the vacuum solar collector;
- LEDs.

Physicochemical properties:	
Colour	grey
Density at 20°C	3,28 g/cm³
Thermal conductivity	6 W/mK
Operating temperature	from -50°C to 250°C
Thermal impedance	<0,004°C in2/W
Evaporation	does not evaporate
Viscosity	does not flow
Thixotropic index	380+/-10
Specific cross resistance	2,0x10 ¹⁰ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,32
Relative dielectric permeability ε _r at f=120 Hz	56,0

Packagings:		
Volume	Type of packaging	Item Code
1 g	syringe	ART.AGT-162
3 g	syringe	ART.AGT-108
100 g	plastic box	ART.AGT-247
1 kg	plastic box	ART.AGT-150

AG Silver is a thermal conductive paste with the addition of silver compounds. Its thermal conductivity is much higher than the conductivity of typical carbon-silicon compounds.

This product complies with the ROHS Dangerous Substances Directive.

Application:

- fills micro-inequalities between the touching elements, e.g. processor and radiator;
- perfect as a substance transferring heat from the condenser tubes to the exchanger in the vacuum solar collector.



Physicochemical properties:	
Colour	silver
Density at 20°C	2,37 g/cm³
Thermal conductivity	>3,80 W/mK
Operating temperature	from -50°C to 250°C
Thermal impedance	<0,067°C in2/W
Evaporation	<0,001%
Viscosity	does not flow
Thixotropic index	380+/-10
Specific cross resistance	2,9x10 ¹³ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	<0,001
Relative dielectric permeability ε _r at f=120 Hz	13,9

Packagings:		
Volume	Type of packaging	Item Code
0,5 g	sachet	ART.AGT-143
1 g	syringe	ART.AGT-164
3 g	syringe	ART.AGT-107
100 g	plastic box	ART.AGT-118
1 kg	plastic box	ART.AGT-149



AG Gold is a high-quality thermal conductive paste. Owing to its gold content, its thermal conductivity is 3 times higher than in the case of regular pastes. This allows the processor to lower the processor temperature by about 6 degrees, even without changing the radiator. The paste is the best alternative for overclockers.

Application:

- fills micro-inequalities between the touching elements, e.g. processor and radiator;
- perfect as a substance transferring heat from the condenser tubes to the exchanger in the vacuum solar collector.

Physicochemical properties:	
Colour	gold
Density at 20°C	2,35 g/cm ³
Thermal conductivity	>3,57 W/mK
Operating temperature	from -50°C to 250°C
Thermal impedance	<0,083°C in2/W
Evaporation	does not evaporate
Viscosity	does not flow
Thixotropic index	380+/-10
Specific cross resistance	2,2x10 ¹⁴ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,005
Relative dielectric permeability ε _r at f=120 Hz	7,7

Packagings:		
Volume	Type of packaging	Item Code
1 g	syringe	ART.AGT-163
3 g	syringe	ART.AGT-106
100 g	plastic box	ART.AGT-119

Copper-based heat conducting paste filling the processor-radiator connections to improve cooling.

Application:

- filling the processor-radiator connections;
- not suitable for aluminium radiators;
- does not conduct electricity.



Physicochemical properties:	
Colour	copper
Density at 20°C	~2,9 g/cm ³
Thermal conductivity	~3,10 W/mK
Operating temperature	from -50°C to 250°C
Evaporation	does not evaporate
Viscosity	does not flow
Thixotropic index	380+/-10
Specific cross resistance	3,8x10 ¹⁴ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,013
Relative dielectric permeability ε _r at f=120 Hz	13,6

Packagings:		
Volume	Type of packaging	Item Code
1,5 ml	syringe	ART.AGT-060
14 ml	syringe	ART.AGT-061



The H thermal conductive paste with a heat transfer coefficient of >0,88 W/mK, silicon compound facilitates the transfer of heat between electronic components and the radiator. It is essential to the proper operation of all kinds of temperature sensors, protects against weathering, prevents thermal breakdowns. It is characterized by a very good chemical resistance to oxidation; the effect of aqueous solutions of acids, alkali and salts; sulphur dioxide and ammonia. It has a wide operating temperature range: from – 50°C to 250°C. Does not conduct electricity.

Application:

- units modules with a high heat transfer coefficient;
- cooling devices on terminal boards and frames;
- flash memory drives and high-speed drives;
- motor control systems (automotive industry);
- hard disc and DVD drives;
- power transducers;
- high-power LED diodes;
- notebooks and office computers;
- network communication devices;
- household appliances, electronic and electrical components;
- air conditioning devices.

Packagings:		
Volume	Type of packaging	Item Code
0,5 g	sachet	ART.AGT-144
7 g	tube	ART.AGT-055
25 g	syringe	ART.AGT-056
100 g	plastic container	ART.AGT-057
800 g	cartridge	ART.AGT-120
1 kg	plastic container	ART.AGT-058
5 kg	plastic container	ART.AGT-059

Physicochemical properties:	
Colour	white
Density at 20°C	2,58 g/cm³
Thermal conductivity	>0,88 W/mK
Operating temperature	from -50°C to 250°C
Refractive index	1,41
Dielectric constant	4,7(±0,1)
Specific heat at 50°C	0,24 Cal/g K
Specific cross resistance	3,7x10 ¹⁵ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,016
Relative dielectric permeability ε _r at f=120 Hz	8,0



Thermal Conductive Paste H2



The H2 thermal conductive paste with a heat transfer coefficient of >0,88 W/mK, silicon compound facilitates the transfer of heat between electronic components and the radiator. It is essential to the proper operation of all kinds of temperature sensors, protects against weathering, prevents thermal breakdowns. It is characterized by a very good chemical resistance to oxidation; the effect of aqueous solutions of acids, alkali and salts; sulphur dioxide and ammonia. It has a wide operating temperature range: from – 50°C to 250°C. Does not conduct electricity.

Application:

- units modules with a high heat transfer coefficient;
- cooling devices on terminal boards and frames;
- flash memory drives and high-speed drives;
- motor control systems (automotive industry);
- hard disc and DVD drives;
- power transducers;
- high-power LED diodes;
- notebooks and office computers;
- network communication devices;
- household appliances, electronic and electrical components;
- air conditioning devices.

Physicochemical properties:	
Colour	white
Density at 20°C	2,7 g/cm³
Thermal conductivity	>0,88 W/mK
Operating temperature	from -50°C to 250°C
Refractive index	1,41
Dielectric constant	4,7(±0,1)
Specific heat at 50°C	0,24 Cal/g K
Specific cross resistance	4,7x10 ¹⁵ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,007
Relative dielectric permeability ε _r at f=120 Hz	6,8

Packagings:		
Volume	Type of packaging	Item Code
800 g	cartridge	ART.AGT-309
5 kg	plastic container	ART.AGT-318

Thermal Conductive Paste H3



The H3 thermal conductive paste with a heat transfer coefficient of >0,88 W/mK, silicon compound facilitates the transfer of heat between electronic components and the radiator. It is essential to the proper operation of all kinds of temperature sensors, protects against weathering, prevents thermal breakdowns. It is characterized by a very good chemical resistance to oxidation; the effect of aqueous solutions of acids, alkali and salts; sulphur dioxide and ammonia. It has a wide operating temperature range: from – 50°C to 250°C. Does not conduct electricity.

Application:

- units modules with a high heat transfer coefficient;
- cooling devices on terminal boards and frames;
- flash memory drives and high-speed drives;
- motor control systems (automotive industry);
- hard disc and DVD drives;
- power transducers;
- high-power LED diodes;
- notebooks and office computers;
- network communication devices;
- household appliances, electronic and electrical components;
- air conditioning devices.

Physicochemical properties:	
Colour	white
Density at 20°C	1,37 g/cm³
Thermal conductivity	>0,88 W/mK
Operating temperature	from -50°C to 250°C
Refractive index	1,41
Dielectric constant	4,7(±0,1)
Specific heat at 50°C	0,24 Cal/g K
Specific cross resistance	1,0x10 ¹⁶ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,009
Relative dielectric permeability ε _r at f=120 Hz	5,5

Packagings:		
Volume	Type of packaging	Item Code
400 g	cartridge	ART.AGT-311

Thermal Conductive Paste HP



The HP thermal conductive paste with a heat transfer coefficient of >1,5 W/mK, silicon compound facilitates the transfer of heat between electronic components and the radiator. Protects against weathering, prevents thermal breakdowns. It is characterized by a very good chemical resistance to oxidation; the effect of aqueous solutions of acids, alkali and salts; sulphur dioxide and ammonia. It has a wide operating temperature. Does not conduct electricity.

Application:

- units modules with a high heat transfer coefficient;
- cooling devices on terminal boards and frames;
- flash memory drives and high-speed drives;
- motor control systems (automotive industry);
- hard disc and DVD drives;
- power transducers;
- high-power LED diodes;
- notebooks and office computers;
- network communication devices;
- household appliances, electronic and electrical components;
- air conditioning devices.

Physicochemical properties:	
Colour	white
Density at 20°C	~2,1 g/cm³
Thermal conductivity	>1,5 W/mK
Operating temperature	from -50°C to 250°C
Thermal impedance	<0,227°C in2/W
Evaporation	0,001%
Viscosity	does not flow
Thixotropic index	380+/-10
Specific cross resistance	1,3x10 ¹⁴ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,024
Relative dielectric permeability ε _r at f=120 Hz	7,7

Packagings:		
Volume	Type of packaging	Item Code
7 g	tube	ART.AGT-284
60 g	cartridge	ART.AGT-125
100 g	plastic container	ART.AGT-127
1 kg	plastic container	ART.AGT-113

Thermal Conductive Paste HPX



The HPX thermal conductive paste with a heat transfer coefficient of >2,8 W/mK, silicon compound facilitates the transfer of heat between electronic components and the radiator. Protects against weathering, prevents thermal breakdowns. It is characterized by a very good chemical resistance to oxidation; the effect of aqueous solutions of acids, alkali and salts; sulphur dioxide and ammonia. It has a wide operating temperature. Does not conduct electricity.

Application:

- units modules with a high heat transfer coefficient;
- cooling devices on terminal boards and frames;
- flash memory drives and high-speed drives;
- motor control systems (automotive industry);
- hard disc and DVD drives;
- power transducers;
- high-power LED diodes;
- notebooks and office computers;
- network communication devices;
- household appliances, electronic and electrical components;
- air conditioning devices.

Physicochemical properties:	
Colour	grey
Density at 20°C	~2,0 g/cm³
Thermal conductivity	>2,8 W/mK
Operating temperature	from -50°C to 250°C
Thermal impedance	<0,095°C in2/W
Evaporation	0,001%
Viscosity	does not flow
Thixotropic index	380+/-10
Specific cross resistance	1,4x10 ¹⁵ Ohm x cm
Dielectric loss factor tg δ at f=120 Hz	0,008
Relative dielectric permeability ε _r at f=120 Hz	5,1

Packagings:		
Volume	Type of packaging	Item Code
7 g	tube	ART.AGT-275
60 g	cartridge	ART.AGT-126
100 g	plastic container	ART.AGT-128
1 kg	plastic container	ART.AGT-114

Thermally conductive tapes are used if the application of a thermal paste is not possible. The tapes are extremely flexible. Their high compressibility ensures excellent adjustment to elements in need of cooling.

Application:

- between heat-generating semiconductors and the heat sink;
- filling the air spaces between the computer motherboard and the heat sink;
- in LED lighting systems.



Physicochemical properties:			
Parameters	Thermal conductivity 1,5 W/mK	Thermal conductivity 2,4 W/mK	Thermal conductivity 6 W/mK
Thickness	1 mm / 2 mm / 3 mm	1 mm / 2 mm / 3 mm	1 mm / 2 mm / 3 mm
Density [g/cm³]	2	2,9	3,0 ± 0,1
Hardness [Shore'a]	40	30	30 ± 5
Operating temperature [°C]	-60 ~ 200	-60 ~ 200	-60 ~ 200
Volume resistance [Ohm/m]	10 ¹¹	10 ¹¹	1,1 x 10 ¹¹
Dielectric constant [1000Hz]	5	6	7,5

Packagings - thermal conductivity 1,5 W/mK:			
Type [mm]	Thickness	Type of packaging	Item Code
AG ThermoPad 20x130x1,0	1 mm	stringed bag	ART.AGT-134
AG ThermoPad 20x130x2,0	2 mm	stringed bag	ART.AGT-135
AG ThermoPad 20x130x3,0	3 mm	stringed bag	ART.AGT-136
AG ThermoPad 30x30x1,0	1 mm	stringed bag	ART.AGT-153
AG ThermoPad 30x30x2,0	2 mm	stringed bag	ART.AGT-154
AG ThermoPad 30x30x3,0	3 mm	stringed bag	ART.AGT-155
AG ThermoPad 200x400x1,0	1 mm	stringed bag	ART.AGT-196
AG ThermoPad 200x400x2,0	2 mm	stringed bag	ART.AGT-197
AG ThermoPad 200x400x3,0	3 mm	stringed bag	ART.AGT-198

Packagings - thermal conductivity 2,4 W/mK:			
Type [mm]	Thickness	Type of packaging	Item Code
AG ThermoPad 20x130x1,0	1 mm	stringed bag	ART.AGT-137
AG ThermoPad 20x130x2,0	2 mm	stringed bag	ART.AGT-138
AG ThermoPad 20x130x3,0	3 mm	stringed bag	ART.AGT-139
AG ThermoPad 30x30x1,0	1 mm	stringed bag	ART.AGT-156
AG ThermoPad 30x30x2,0	2 mm	stringed bag	ART.AGT-157
AG ThermoPad 30x30x3,0	3 mm	stringed bag	ART.AGT-158
AG ThermoPad 200x400x1,0	1 mm	stringed bag	ART.AGT-193
AG ThermoPad 200x400x2,0	2 mm	stringed bag	ART.AGT-194
AG ThermoPad 200x400x3,0	3 mm	stringed bag	ART.AGT-195

Packagings - thermal conductivity 6 W/mK:			
Type [mm]	Thickness	Type of packaging	Item Code
AG ThermoPad 20x130x1,0	1 mm	stringed bag	ART.AGT-140
AG ThermoPad 20x130x2,0	2 mm	stringed bag	ART.AGT-141
AG ThermoPad 20x130x3,0	3 mm	stringed bag	ART.AGT-142
AG ThermoPad 30x30x1,0	1 mm	stringed bag	ART.AGT-159
AG ThermoPad 30x30x2,0	2 mm	stringed bag	ART.AGT-160
AG ThermoPad 30x30x3,0	3 mm	stringed bag	ART.AGT-161
AG ThermoPad 200x400x1,0	1 mm	stringed bag	ART.AGT-130
AG ThermoPad 200x400x2,0	2 mm	stringed bag	ART.AGT-191
AG ThermoPad 200x400x3,0	3 mm	stringed bag	ART.AGT-192



Thermally conductive tapes are used if the application of a thermal paste is not possible. The tapes are extremely flexible. Their high compressibility ensures excellent adjustment to elements in need of cooling.

Application:

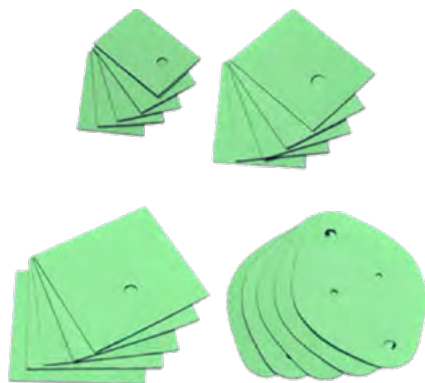
- between heat-generating semiconductors and the heat sink;
- filling the air spaces between the computer motherboard and the heat sink;
- in LED lighting systems.

Physicochemical properties:			
Parameters	Thermal conductivity 1,5 W/mK	Thermal conductivity 2,4 W/mK	Thermal conductivity 6 W/mK
Thickness	0,3 / 0,5 mm	0,3 / 0,5 mm	0,5 mm
Density [g/cm³]	2	2,9	3,0 ± 0,1
Hardness [Shore'a]	40	30	30 ± 5
Operating temperature [°C]	-60 ~ 200	-60 ~ 200	-60 ~ 200
Volume resistance [Ohm/m]	10 ¹¹	10 ¹¹	1,1 x 10 ¹¹
Dielectric constant [1000Hz]	5	6	7,5

Packagings - thermal conductivity 1,5 W/mK:			
Type [mm]	Thickness	Type of packaging	Item Code
AG ThermoPad 20x130x0,3	0,3 mm	stringed bag	ART.AGT-293
AG ThermoPad 20x130x0,5	0,5 mm	stringed bag	ART.AGT-299
AG ThermoPad 30x30x0,3	0,3 mm	stringed bag	ART.AGT-294
AG ThermoPad 30x30x0,5	0,5 mm	stringed bag	ART.AGT-300
AG ThermoPad - 0,3 mm 20x40cm	0,3 mm	stringed bag	ART.AGT-292
AG ThermoPad - 0,5 mm 20x40cm	0,5 mm	stringed bag	ART.AGT-298

Packagings - thermal conductivity 2,4 W/mK:			
Type [mm]	Thickness	Type of packaging	Item Code
AG ThermoPad 20x130x0,3	0,3 mm	stringed bag	ART.AGT-296
AG ThermoPad 20x130x0,5	0,5 mm	stringed bag	ART.AGT-302
AG ThermoPad 30x30x0,3	0,3 mm	stringed bag	ART.AGT-297
AG ThermoPad 30x30x0,5	0,5 mm	stringed bag	ART.AGT-303
AG ThermoPad - 0,3 mm 20x40cm	0,3 mm	stringed bag	ART.AGT-295
AG ThermoPad - 0,5 mm 20x40cm	0,5 mm	stringed bag	ART.AGT-301

Packagings - thermal conductivity 6 W/mK:			
Type [mm]	Thickness	Type of packaging	Item Code
AG ThermoPad 20x130x0,5	0,5 mm	stringed bag	ART.AGT-305
AG ThermoPad 30x30x0,5	0,5 mm	stringed bag	ART.AGT-306
AG ThermoPad - 0,5 mm 20x40cm	0,5 mm	stringed bag	ART.AGT-307



TO thermal conductive pads of 1.5 W/mK heat conductivity are great conductors of heat and at the same time good electrical insulators.

- Application:**
- various types of transistors.

Physicochemical properties:	
Colour	green (light green)
Reinforcement carrier	fiberglass
Thickness	0,3 mm
Density (rubber mass)	2 g/cm³
Heat capacity	1,0 J/(g·K)
Hardness	40 Shore’a
Temperature of continuous use	from -60°C to 200°C
Dielectric breakdown strength	6 V/m
Dielectric constant	5,0 Hz
Cross resistivity	10 ¹¹ Ohm x m
Thermal conductivity	1,5 W/mK
Thermal impedance	2,47°C-in²/W

Type	Thickness	Length	Width
AG TermoPad TO3	0,3 mm	41,5 mm	28,2 mm
AG TermoPad TO220	0,3 mm	18 mm	13 mm
AG TermoPad TO247	0,3 mm	23 mm	18 mm
AG TermoPad TO	0,3 mm	26 mm	25 mm

Packagings:		
Volume	Type of packaging	Item Code
AG TermoPad TO3	stringed bag	ART.AGT-240
AG TermoPad TO220	stringed bag	ART.AGT-241
AG TermoPad TO247	stringed bag	ART.AGT-242
AG TermoPad TO	stringed bag	ART.AGT-243

Thermal conductive adhesive – is a perfect method of attaching radiators, e.g. on memory bones, transistors or bridges. A connection created this way is extremely durable and has excellent thermal conductivity parameters. When applying the product, do not exceed the thickness of 6 mm. The adhesive should dry completely up to 24 hours. However, depending on the thickness applied, it can be up to 2 days.

- Application:**
- mounting radiators on bridges, transistors and memory bones;
 - joining and filling gaps between heating elements.



Physicochemical properties:	
Colour	white
Surface drying time 25°C	5-15 min
Hardness	55±5 Shore A
Tensile strength	2,1 Mpa
Elongation	100%
Thermal conductivity	0,975 W/mK
Dielectric strength	28 KV/mm
Dielectric constant	2,0
Operating temperature	from -60°C to 180°C

Packagings:		
Volume	Type of packaging	Item Code
10 g	tube	ART.AGT-116
120 g	tube	ART.AGT-180

ElectroConductivity



Rubber pads for remote controls



Dedicated silicone discs that conduct electric current and are perfect for the repair of remote controls, calculators and control panels. Used in all types of remote controls, wherever rubber elements may lose conductivity.

Application:

- remote controls;
- calculators;
- control panels.

Physicochemical properties:	
Thickness	0,5 mm
Diameter	4 mm

Packagings:		
Volume	Type of packaging	Item Code
100 rubber pieces + adhesive (8g)	stringed bag	ART.AGT-021

Electrically conductive rubber (without glue)

Electrically conductive rubber, which is perfect for repairing keyboards, calculators, control panels. Used wherever old rubbers lose their conductivity.

Application:

- remote controls;
- calculators;
- control panels.



Physicochemical properties:	
Thickness	0,5 ± 0,05
Colour	black
Hardness Shore	55 ± 5
Surface	glossy
Resistance	150-200 Ohm x cm
Temperature resistance	-40 ~ 200°C
Tensile strength	≥6,0 Mpa
Elongation at break	≥250%
Tearing strength	≥22 KN/m
Compression deformation	max 55%

Packagings:		
Volume	Type of packaging	Item Code
Electrically conductive rubber 50 x 50 x 0,5 mm	stringed bag	ART.AGT-250
Electrically conductive rubber 50 x 150 x 0,5 mm	stringed bag	ART.AGT-251

Graphite varnish



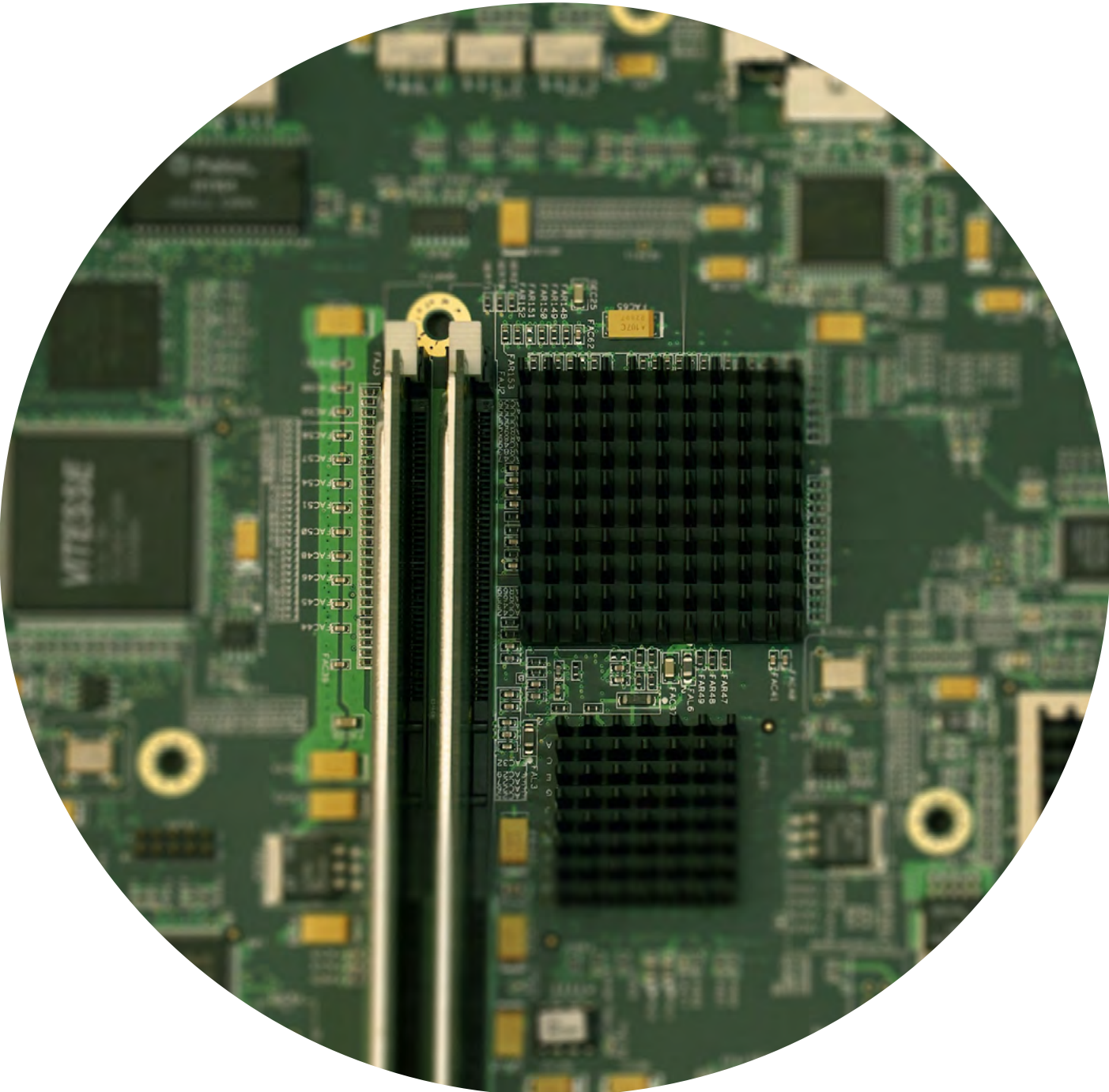
Product intended for the repair of graphite-coated boards, e.g., in remote controls and calculators. Suitable also for restoring bridge function and the repair of interrupted paths. The set contains two vials (graphite varnish and a solvent). Lacquer setting is required. Set the newly applied lacquer with the help of a 100W bulb placed at a distance of 15cm and lit for approx. 90 mines. The package contains 2 vials. One with graphite lacquer, and the other with a solvent (ethyl acetate). In the case of excessive thickening of the lacquer, add 2-3 drops of solvent and stir for approx. 2 mines. Repeat if necessary.

Application:

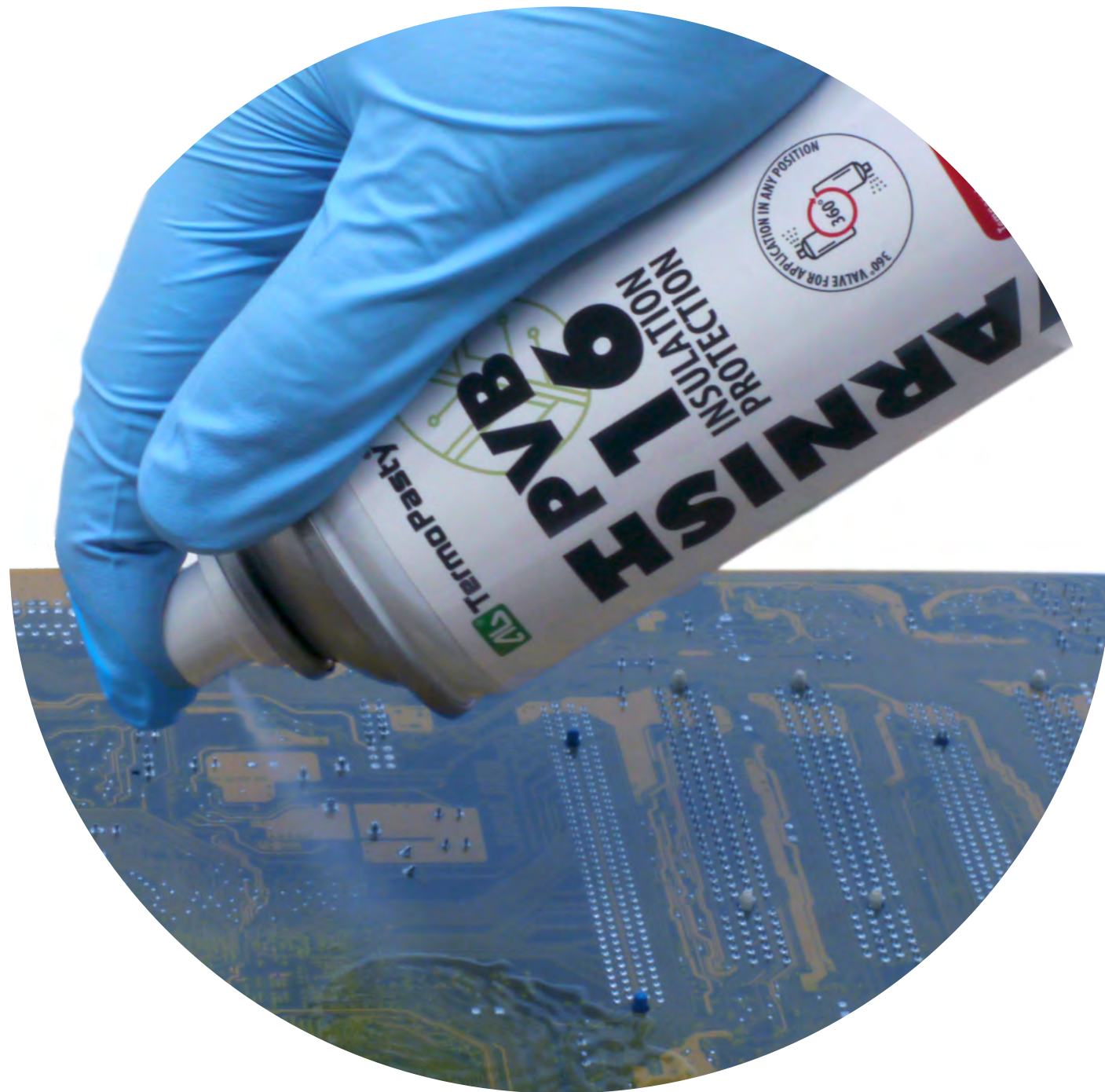
- provision of graphite coating losses in printed circuit boards;
- securing silver-plated contacts against harmful direct contact between silver and rubber (e.g., in remote controls);
- formation or reconstruction of paths in (low-current) printed circuit boards.

Physicochemical properties:	
State of matter	liquid/paste
Colour	black
Odor	characteristic
Density at 20°C	1,2 g/cm³
Viscosity at 20°C	15-50 Pa·s
Solubility in water	dissolves

Packagings:		
Volume	Type of packaging	Item Code
2 x 1,5 ml	vial	ART.AGT-022



Electronics maintenance

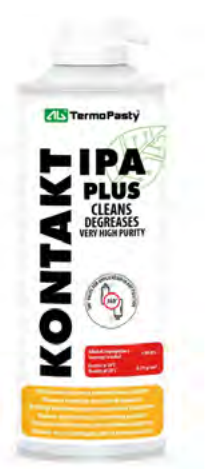
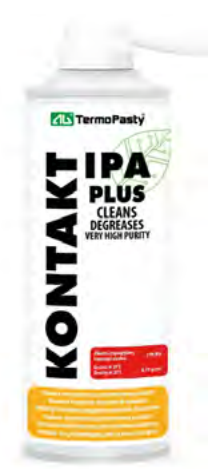


High-purity isopropyl alcohol “IPA”. Perfectly removes all impurities from optical elements. Does not leave any marks or stains. Chemically neutral to commonly used materials. In a liquid and aerosol form.

- Application:**
- CD-ROM drives, DVD drives;
 - audio-CD drives;
 - tool cleaning;
 - pcb tile cleaning;
 - flow meter cleaning;
 - photo CD devices;
 - screen cleaning;
 - AV heads and mechanisms;
 - ultrasonic cleaners;
 - fibre optic connectors.



Physicochemical properties:	
Appearance	clear colourless liquid
Odour	characteristic
Colour	max. 10 Pt-Co
Density at 20°C	min. 0,79 g/cm³
Main ingredient content	min. 99,7%
Acidity as acetic acid	max. 0,01%
Distillation IBP	min. 82,0°C



Packagings:		
Volume	Type of packaging	Item Code
50 ml	plastic bottle with applicator	ART.AGT-001
60 ml	aerosol	ART.AGT-005
100 ml	plastic bottle with applicator	ART.AGT-002
250 ml	plastic bottle with atomizer	ART.AGT-267
300 ml	aerosol	ART.AGT-006
400 ml	aerosol with brush	ART.AGT-225
500 ml	plastic bottle	ART.AGT-105
500 ml	plastic bottle with sprinkler	ART.AGT-252
600 ml	aerosol	ART.AGT-202
1 L	metal canister	ART.AGT-003
5 L	plastic canister	ART.AGT-004
5 L	metal canister	ART.AGT-218
20 L	plastic canister	ART.AGT-236





Special formulation for the regeneration of potentiometers that is ideal for the removal of any impurities deposited throughout device operation. The product contains a special lubricant for correct slippage.

Application:

- removal of sulphides and oxides;
- regeneration of potentiometers;
- cleaning and preserving propertie.

Physicochemical properties:	
Appearance	liquid
Odour	characteristic of the raw materials used
Colour	amber
Density at 20°C	0,79 g/cm³
Viscosity at 20°C	22,8 cP
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
60 ml	aerosol	ART.AGT-007
300 ml	aerosol	ART.AGT-008
400 ml	aerosol with brush	ART.AGT-254
1 L	metal canister	ART.AGT-096

PCB cleanser is designed to clean any residues after soldering from the surfaces of printed circuit boards. It dissolves flux residues, including rosin. The liquid does not attack the substrate or structural elements of printed circuit boards. Special brush allows to precisely access to the cleaned surface, for this reason it may remove even the smallest particles and debris. Perfect for cleaning PCBs after repair and assembly.

Application:

- the product does not leave deposits;
- evaporates very quickly;
- removes residues after soldering;
- perfect in any electronics service;
- the product does not react with most plastics used in electronics.



Physicochemical properties:	
State of matter	gas
Odour	characteristic, alcoholic
Colour	transparent
Density at 20°C	0,79 g/cm³
Viscosity at 20°C	22,8 cP
Solubility in water	dissolves

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-237
400 ml	aerosol	ART.AGT-238

NOTE !

The container is equipped with a special applicator to allow for perfect cleaning without having to apply aggressive solvent mixtures.

Kontakt U



The formulation is a composition of solvents that allows cleaning and degreasing of electrical components and contacts. Kontakt U is an agent that effectively removes residual grease, dirt, old lubricants, oils, silicones, sulphides and oxides dissolved with Kontakt S as well as any soldering residues (including rosin). The formulation protects against corrosion and ensures low contact transition resistance.

- Application:**
- degreasing of components and contacts;
 - cleaning of components and contacts;
 - good lubricating properties.

Physicochemical properties:	
Appearance	liquid
Odour	pungent, alcoholic
Colour	transparent
Density at 20°C	0,74 g/cm³
Viscosity at 20°C	18,6 cP
Solubility in water	dissolves

Packagings:		
Volume	Type of packaging	Item Code
60 ml	aerosol	ART.AGT-011
300 ml	aerosol	ART.AGT-012
400 ml	aerosol with brush	ART.AGT-226
1 L	metal canister	ART.AGT-097

Kontakt S



Formulation for the purification of contacts from oxides and sulphides that protects against corrosion and ensures unobstructed current flow (especially in the case of oxidised and worn contacts). Used wherever clean contacts are required (inter alia : switches, sockets, plugs, integrated circuit sockets, bulb fixtures, fuse holders, contacts in capacitors). The agent does not react with the materials used in electronics.

- Application:**
- restores low connector resistance;
 - exerts cleaning properties;
 - used in audio technology;
 - protection against moisture and corrosion;
 - prevents stray current formation.

Physicochemical properties:	
Appearance	liquid
Odour	pungent, alcoholic
Colour	transparent
Density at 20°C	0,74 g/cm³
Viscosity at 20°C	20,5 cP
Solubility in water	dissolves

Packagings:		
Volume	Type of packaging	Item Code
60 ml	aerosol	ART.AGT-010
300 ml	aerosol	ART.AGT-009
400 ml	aerosol with brush	ART.AGT-227
1 L	metal canister	ART.AGT-098



Formulation intended for the detection of defects by thermal method. The agent causes rapid cooling to –55°C and allows local cooling of components, thereby proving to be ideal for cold joint and hairline cracks inspection in printed circuit boards. The product is chemically pure, non-toxic and inert to most materials.

Application:

- identification of damaged components;
- for thermostat / thermistor/ varistor testing;
- for testing elements that operate at variable temperatures;
- pressing pins and bushings by thermal method;
- audio, video;
- can be used for the removal of chewing gum from fabric or carpet.

Physicochemical properties:	
Density at 15°C	0,57 g/cm³
Appearance	colourless gas
Water	does not contain
Odour	no unpleasant odour
Relative vapour pressure at 20 °C	351 kPa
Melting point	-187,6°C (propane), -138,3°C (butane)
Boiling point temperature	-42,1°C (propane), -1°C (butane)
Flash point	-95°C (propane), -60°C (butane)
Total sulphur content	<0,25 mg/kg
Flammability	extremely flammable gas
Vapours pressure	2,7-4,0 bar
Vapour density relative to air	heavier-than-air gas
Solubility in water	insoluble
Solubility in organic solvents	soluble in ethanol and ethyl ether
Autoignition temperature	470°C (propane), 365°C (butane)

Packagings:		
Volume	Type of packaging	Item Code
300 ml	aerosol	ART.AGT-020
600 ml	aerosol	ART.AGT-129

The product protects the printed circuit boards against oxidation and corrosion during storage. This allows for faster soldering and prevents from „cold solders“. The application method enables easy distribution of the product on boards. It can be used during production, repair, maintenance and service. **It meets the requirements of ISO 9454 typ 1111 / J-STD-004 ROL0.**

Application:

- protection of PCB against oxidation;
- applied in the production of printed circuit boards immediately after etching;
- prevents from contamination during assembly;
- it allows for easier soldering of heavily oxidized surfaces.

Flux type: rosin

Type of flux: RMA



Physicochemical properties:	
State of matter	gas
Colour	amber
Density at 20°C	0,8 ± 0,1 g/cm³
Viscosity at 20°C	23,1 cP
Drying time	20 - 30 min

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-235



Universal varnish for printed circuit boards. A quick-drying transparent PVB coat with good isolation properties. Protects printed circuit boards and other elements operating in unfavourable weather conditions from corrosion. The coating protects printed circuit boards against the creation of stray currents and short circuits.

Application:

- insulates and secures broadly understood electronics, printed boards, cables and wires, high-voltage transformers, electric motor coils;
- used to avoid short-circuits in the automotive industry;
- plastic seals of plug and socket casings;
- creates protective layers in power engineering and electromechanics.

Efficiency:

100 ml - approx. 0,8 m²; 400 ml - approx. 3,2 m².

Properties:

Creates a protective and insulating layer that protects against weather influences such as moisture, oxidation, dusts, chemical contaminations. Adheres well to metal, plastic and wood surfaces. Creates a coating resistant to diluted acids, alkalis, and atmospheric agents. It is possible to solder through the varnish layer. Prevents parks and corona discharge. Limits ground failures between paths. It does not change the transparency and elasticity even after a long time. Application temperature range: -40°C +60°C. Flash point: 380°C.

Physicochemical properties:	
State of matter	gas
Appearance	cloudy liquid
Odour	characteristic
Density at 20°C	~0,80 g/cm ³
Viscosity at 20°C	~21 cP
Drying time	10-15 min
Operating temperature	od -50°C do 150°C

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-232
400 ml	aerosol	ART.AGT-115

Universal varnish for printed circuit boards. A quick-drying transparent PVB coat with good isolation properties. Protects printed circuit boards and other elements operating in unfavourable weather conditions from corrosion. The coating protects printed circuit boards against the creation of stray currents and short circuits.

Application:

- insulates and secures broadly understood electronics, printed boards, cables and wires, high-voltage transformers, electric motor coils;
- used to avoid short-circuits in the automotive industry;
- plastic seals of plug and socket casings;
- creates protective layers in power engineering and electromechanics.

Efficiency:

50 ml - approx. 0,25 m²; 1 L - approx. 5 m².

Properties:

Creates a protective and insulating layer that protects against weather influences such as moisture, oxidation, dusts, chemical contaminations. Adheres well to metal, plastic and wood surfaces. Creates a coating resistant to diluted acids, alkalis, and atmospheric agents. It is possible to solder through the varnish layer. Prevents parks and corona discharge. Limits ground failures between paths. It does not change the transparency and elasticity even after a long time. Application temperature range: -40°C +60°C. Flash point: 380°C.

Physicochemical properties:	
State of matter	liquid
Colour	transparent
Odour	characteristic
Density at 20°C	~0,80 g/cm ³
Viscosity at 20°C	~50 cP
Drying time	40-45 min
Operating temperature	od -50°C do 150°C

Packagings:		
Volume	Type of packaging	Item Code
50 ml	plastic bottle with a brush	ART.AGT-199
1 L	metal canister	ART.AGT-217



Silicone paste N

Universal developer for photo
lacquers and positive plates



A silicone paste that effectively isolates and protects from atmospheric influences. The product protects from ground faults, preserves rubber, plastics, and what is important, it has a wide operating temperature range from -40°C to 200°C. It is characterized by a very good chemical resistance to oxidation, the effect of aqueous solutions of acids, alkali and salts, sulphur dioxide and ammonia.

Application:

- isolates and protects against atmospheric influences;
- prevents ground faults;
- preserves rubber and plastics.

The product provides good developing quality, protecting the colour sharpness. The formulation is free from NaOH, which significantly increases the work safety.

Application:

- photo developer.



Physicochemical properties:	
State of matter	paste
Colour	white
Density at 20°C	1,02 - 1,04 g/cm³
Penetration before processing	180 ÷ 220 mm
Penetration after processing	up to 270 mm
Operating temperature	from -40°C to 200°C
Weight loss within 24 hours at 200°C	5%
Aqueous extract: pH	4 - 6
Dielectric constant 100 Hz	2,9
Tangens kąta strat 100 Hz	max. 0,003
Cross resistance	10 ¹³ Ohm x cm
Ground fault voltage	~30 kV/mm
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
3,5 g	tube	ART.AGT-052
60 g	plastic container	ART.AGT-053
1 kg	plastic container	ART.AGT-054

Physicochemical properties:	
Content Na ₂ O	28,50-30,00%
Content SiO	27,80-29,25%
Substances undissolved in H ₂ O	max. 0,05
pH	12-13
Whiteness	min. 80,00%
Iron	max. 100 ppm
Bulk density	0,80-0,97 g/cm³
Melting point	~ 72,2°C

Packagings:		
Volume	Type of packaging	Item Code
22g	stringed bag	ART.AGT-087

PVB 60 solvent



High quality pure chemical agent. Designed for diluting the PVB 60 varnish. May be used to clean brushes, soiled equipment and elements due to painting or as a varnish remover. In order to obtain a thinner layer of PVB varnish, it is recommended to use the PVB solvent. It does not affect the colouration and does not tarnish the diluted product.

Application:

- varnish remover;
- cleaning of brushes, soiled tools;
- it washes away the residues after soldering, including rosin.

Physicochemical properties:	
State of matter	liquid
Colour	transparent
Odour	characteristic
Relative density in 20°C	~0,78 - 0,79 g/cm³
Viscosity at 20°C	10 cP
Solubility in water	does not dissolve in water

Packagings:		
Volume	Type of packaging	Item Code
500 ml	plastic bottle	ART.AGT-239

Sodium persulfate B327/Na₂S₂O₈

Fine crystalline agent. An ideal alternative to ferric chloride. The agent dissolves very rapidly and does not precipitate as crystals from the solution. Etches in a homogeneous manner ensuring contour clarity and minimizing subetching

Application:

- for etching printed circuit boards and copper.



Physicochemical properties:	
Form	white, crystalline powder
Odour	no fragrance
pH (750g/1l w 25°C)	4-6
Density at 25°C	1,68 g/cm³
Sodium persulphate content	≥99,0% (m/m)
Iron content	≤5,00 (ppm)
Quartz content	≤0,10% (m/m)
Moisture content	≤0,05% (m/m)
Active oxygen content	≥6,65% (m/m)
Decomposition temperature	approx. 180°C

Packagings:		
Volume	Type of packaging	Item Code
100 g	daypack	ART.AGT-084
250 g	daypack	ART.AGT-090
500 g	daypack	ART.AGT-091
1 kg	plastic bottle	ART.AGT-122

Water PCB cleaner

Alcohol PCB cleaner



A water-based remover used for removing solder residues from the surface of packages. Used to clean solder iron frames, stencils and screens. Causes the saponification of rosin and dissolves residual fluxing agent. It's work accelerates in the presence of neutralisers and additives that lower the surface tension. It does not attack metal or aluminium surfaces.

Application:

- the preparation should be used in continuous washing lines;
- periodic chamber devices;
- washing devices for stencil and transport frame screens of solder assemblies where it is possible to wash packages in water.

Physicochemical properties:	
State of matter	liquid
Colour	transparent
Odour	characteristic
Density at 20°C	~1 g/cm³
Viscosity at 20°C	11 cP
pH	11-12
Solubility in water	complete

Packagings:		
Volume	Type of packaging	Item Code
1 L	plastic bottle	ART.AGT-050
5 L	plastic bottle	ART.AGT-051

A PCB remover designed to clean any solder residue from the printed circuit board surfaces and to clean the soldering iron frames, stencils, rosin stains, and the dissolution of fluxing agent residues. Liquid does not attack the substrate or the printed circuit board components.

Application:

- the preparation should be used in continuous washing lines;
- periodic chamber devices;
- washing devices for stencil and transport frame screens of solder assemblies where it is possible to wash packages in water.

Physicochemical properties:	
State of matter	liquid
Colour	transparent
Odour	characteristic
Density at 20°C	~0,75 g/cm³
Dynamic viscosity at 20°C	~8 cP
Solubility in water	complete

Packagings:		
Volume	Type of packaging	Item Code
1 L	metal canister	ART.AGT-048
5 L	metal canister	ART.AGT-049

Ultrasonic Cleaning Solution

Thermosonic PCB



The preparation is a harmless, non-flammable, water-based agent. It is used to quickly remove all types of fluxing agents, solder pastes, and SMT adhesives, as well as other impurities arising from the soldering process from stencils and printed circuit boards. Product directly for use – DO NOT THIN. Mix thoroughly before use.

- Application:**
- liquid for ultrasonic cleaners.

Physicochemical properties:	
State of matter	liquid
Colour	transparent
Odour	characteristic
Density at 20°C	0,99 g/cm ³
Viscosity at 20°C	15 cP
pH	11
Solubility in water	complete

Packagings:		
Volume	Type of packaging	Item Code
1 L	metal canister	ART.AGT-200





Hermetisation



Silicone potting compound 011

Silicone potting compound 011



The product is a two-component, liquid casting material. It cures in a condensation system. Hardening occurs at room temperature. The material ensures low expansibility. It's ideal for casting or filling gaps in electronic components with metal housings. It has excellent fluidity during dosing and casting. After curing, it does not detach due to cyclic heating from the surface to which it adheres. The hardened product is dry to the touch.

The application of condensation filling compound in a closed system can cause the occurrence of unarmful white coating, which does not influence on the operation of the system.

Application:

- encapsulation of electronic/electrical systems;
 - energy converters;
 - power semiconductors;
 - power supplies;
- automotive electronics;
 - motion control;
 - telecommunication;
 - computers and peripheral devices.

Filling compound properties (after cross-linking) 100:8:	
Density at 25°C	approx. 0,97 g/cm³
Content of volatiles	3%
Shelf life at 25°C	approx. 30 min
Geling time at 25°C	max. 48 h
Operating temperature	from -50°C to 200°C
PH of aqueous extract	7±1
Consistency after cross-linking	solid (transparent rubber)

Safety:

The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

Test of cross-linking samples, seasoning for at least 100 hours at a room temperature from a hardening time		
Parameter	Unit	Result
Cross resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ωxcm]	1x10 ¹²
Surface resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ω]	1x10 ¹³
Dielectric loss factor (tg δ) (ASTM D150) at a frequency 10 ⁶ Hz	-	0,005
Dielectric permeability at a frequency of 10 ⁶ Hz	-	3
Dielectric durability at 20 ± 5°C and air relative humidity of 65±5% (PN-EN 60243-1) [kV	[kV/mm]	10,0
Resistance to creepage currents in accordance with PN-EN 60112:2003 (CTI)	CTI [V]	600
Hardness based on Shore scale	[A]	26

Packagings:	
Volume	Item Code
100 g (100 g A + 8 g B)	ART.AGT-219
1 kg (1 kg A + 80 g B)	ART.AGT-260

[See the product data sheet for more information.](#)



The product is a liquid, two-component casting material. Hardening occurs at room temperature. It's ideal for casting or filling gaps in heat-generating electronic components with metal housings or heat sinks. It has excellent fluidity during dosing and casting. After curing, it does not detach due to cyclic heating from the surface to which it adheres. The hardened product is dry to the touch.

The application of condensation filling compound in a closed system can cause the occurrence of unarmful white coating, which does not influence on the operation of the system.

Application:

- encapsulation of electronic/electrical systems;
 - energy converters;
 - power semiconductors;
 - power supplies;
- automotive electronics;
 - motion control;
 - telecommunication;
 - computers and peripheral devices.

Filling compound properties (after cross-linking) 100:8:	
Density at 25°C	approx. 1,2 g/cm³
Content of volatiles	3%
Shelf life at 25°C	approx. 30 min
Geling time at 25°C	max. 48 h
Operating temperature	from -50°C to 180°C
PH of aqueous extract	7±1
Consistency after cross-linking	solid (milky rubber)

Safety:

The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

Test of cross-linking samples, seasoning for at least 100 hours at a room temperature from a hardening time		
Parameter	Unit	Result
Cross resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ωxcm]	1x10 ¹²
Surface resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ω]	1x10 ¹³
Dielectric loss factor (tg δ) (ASTM D150) at a frequency 10 ⁶ Hz	-	0,015
Dielectric permeability at a frequency of 10 ⁶ Hz	-	3
Dielectric durability at 20 ± 5°C and air relative humidity of 65±5% (PN-EN 60243-1) [kV	[kV/mm]	15,0
Resistance to creepage currents in accordance with PN-EN 60112:2003 (CTI)	CTI [V]	600
Hardness based on Shore scale	[A]	58

Packagings:	
Volume	Item Code
100 g (100 g A + 6 g B)	ART.AGT-201
1 kg (1 kg A + 60 g B)	ART.AGT-261

[See the product data sheet for more information.](#)



The product is a liquid filling, two-component material. Hardening occurs at a room temperature. The material provides thermal conductivity and low expansion. Ideal for pouring or filling joints in heatgenerating electronic components with metal housings or radiators. It has an excellent fluency at dosing and filling. After hardening, it does not tear off as a result of cyclic heating from a surface, to which it is attached. Hardened product is dry to the touch.

The application of condensation filling compound in a closed system can cause the occurrence of unharmlful white coating, which does not influence on the operation of the system.

Application:

- encapsulation of electronic/electrical systems;
 - energy converters;
 - power semiconductors;
 - power supplies;
- automotive electronics;
 - motion control;
 - telecommunication;
 - computers and peripheral devices.

Filling compound properties (after cross-linking) 100:10:	
Density at 25°C	approx. 1,12 g/cm³
Content of volatiles	3%
Shelf life at 25°C	approx. 30 min
Geling time at 25°C	max. 60 h
Thermal conductivity	~1,2 W/mK
Operating temperature	from -50°C to 180°C
Consistency after cross-linking	solid (white rubber)

Safety:

The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

Initial gelation - 15 mines at 6 mm thickness. Test of cross-linking samples, seasoning for at least 100 hours at a room temperature from a hardening time		
Parameter	Unit	Result
Cross resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ωxcm]	1,78x10 ¹⁶
Surface resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ω]	2,41x10 ¹⁵
Dielectric loss factor (tg δ) (ASTM D150) at a frequency 10 ⁶ Hz	-	0,005
Dielectric permeability at a frequency of 10 ⁶ Hz	-	3
Dielectric durability at 20 ± 5°C and air relative humidity of 65±5% (PN-EN 60243-1) [kV	[kV/mm]	>20,0
Resistance to creepage currents in accordance with PN-EN 60112:2003 (CTI)	CTI [V]	600
Hardness based on Shore scale	[A]	59

Packagings:	
Volume	Item Code
100 g (100 g A + 10 g B)	ART.AGT-220
1 kg (1 kg A + 100 g B)	ART.AGT-262

[See the product data sheet for more information.](#)

Silicone potting compound 029 (ThermoConductive)



The product is a liquid filling, two-component material. Hardening occurs at a room temperature. The material provides thermal conductivity and low expansion. Ideal for pouring or filling joints in heatgenerating electronic components with metal housings or radiators. It has an excellent fluency at dosing and filling. After hardening, it does not tear off as a result of cyclic heating from a surface, to which it is attached. Hardened product is dry to the touch.

The application of condensation filling compound in a closed system can cause the occurrence of unharful white coating, which does not influence on the operation of the system.

Application:

- encapsulation of electronic/electrical systems;
 - energy converters;
 - power semiconductors;
 - power supplies;
- automotive electronics;
 - motion control;
 - telecommunication;
 - computers and peripheral devices.

Filling compound properties (after cross-linking) 100:10:	
Density at 25°C	approx. 1,15 g/cm³
Content of volatiles	3%
Shelf life at 25°C	approx. 30 min
Geling time at 25°C	max. 60 h
Thermal conductivity	~2 W/mK
Operating temperature	from -50°C to 180°C
Consistency after cross-linking	solid (grey rubber)

Safety:

The product does not cause any hazard. It is not subject to ADR/RID regulations.

Silicone potting compound 029 (ThermoConductive)

Initial gelation - 15 mines at 6 mm thickness. Test of cross-linking samples, seasoning for at least 100 hours at a room temperature from a hardening time		
Parameter	Unit	Result
Cross resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ωxcm]	3,61x10 ¹⁵
Surface resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ω]	1,75x10 ¹⁵
Dielectric loss factor (tg δ) (ASTM D150) at a frequency 10 ⁶ Hz	-	0,005
Dielectric permeability at a frequency of 10 ⁶ Hz	-	3
Dielectric durability at 20 ± 5°C and air relative humidity of 65±5% (PN-EN 60243-1) [kV	[kV/mm]	>20,0
Resistance to creepage currents in accordance with PN-EN 60112:2003 (CTI)	CTI [V]	600
Hardness based on Shore scale	[A]	67

Packagings:	
Volume	Item Code
100 g (100 g A + 10 g B)	ART.AGT-221
1 kg (1 kg A + 100 g B)	ART.AGT-263

[See the product data sheet for more information.](#)

Silicone potting compound 031



Two-component silicone filling compound, cross-linking in the adduct system. The filling compound perfectly protects electronics from environmental stress and protects sensitive modules from vibration. Silicone gel is crystal clear, resistant to UV light and therefore it is the perfect material for LED applications. After hardening, it is very soft. It creates excellent electrical insulation. It has a wide temperatures range, from -50°C to 180°C.

Safety:
The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

- Application:**

 - encapsulation of electronic/electrical systems;
 - energy converters;
 - power semiconductors;
 - power supplies;
- automotive electronics;
 - motion control;
 - telecommunication;
 - computers and peripheral devices.

Filling compound properties (after cross-linking) 3÷2:	
Viscosity at 25°C	approx. 3000 cP
Shelf life at 25°C	approx. 70 min
Geling time at 25°C	max. 24 h
Operating temperature	from -50°C to 180°C
Consistency after cross-linking	soft (transparent gel)

Packagings:	
Volume	Item Code
100 g (60 g A + 40 g B)	ART.AGT-222
1 kg (600 kg A + 400 g B)	ART.AGT-264

[See the product data sheet for more information.](#)





Two-component silicone cross-linking filling compound within the additive system. The filling compound perfectly protects electronics against adverse environmental conditions and protects sensitive modules against vibrations. Silica gel is crystal clear and resistant to UV, which makes it a perfect material for LED applications. After curing it becomes a hard, transparent solid. It provides an excellent electrical insulation. The material protects electronic and telecommunication systems against environment and is used for stiffening and securing. The cross-linking time may be shortened by using a higher temperature (6h ~ 70°C). It is perfect for flooding and filling. The operating range in variable temperatures from -50°C to 180°C.

- Application:**
- air-tight sealing and environmental protection of electronic and telecommunications systems;
 - energy converters;
 - power supply units;
 - vehicle electronics;
 - motion control;
 - telecommunications;
 - excellent material for LED applications.

Filling compound properties (after cross-linking) 3÷2:	
Viscosity at 25°C	2500 ± 500 cP
Shelf life at 25°C	approx. 60 min
Geling time at 25°C	max. 24 h
Operating temperature	from -50°C to 180°C
Consistency after cross-linking	solid (transparent rubber)

Safety:
The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

Test of cross-linked sampled seasoned in a room temperature for 48 hours in laboratory conditions.		
Parameter	Unit	Result
Specific volume resistivity at temp. 20 ± 5°C and relative air humidity of 65 ± 5% (ASTM D257)	ρ _v [Ωxm]	1,8x10 ¹²
	[Ωxcm]	1,8x10 ¹⁴
Specific surface resistivity at temp. 20 ± 5°C and air relative humidity of 65 ± 5% (ASTM D257)	ρ _s [Ω]	4,8x10 ¹⁴
Dielectric loss factor (tg δ) (ASTM D150) at the frequency of:	-	120 Hz
		1 kHz
		10 kHz
		100 kHz
		<0,001
Dielectric permittivity (ε _r) (ASTM D150) at the frequency of:	-	120 Hz
		1 kHz
		10 kHz
		100 kHz
		3,19 3,13 3,10 3,09
Dielectric strength (PN-EN 60243-1)	[kV/mm]	11,0
Creeping current resistance (PN-EN 60112:2003)	CTI [V]	600

Packagings:	
Volume	Item Code
100 g (60 g A + 40 g B)	ART.AGT-315
1 kg (600 kg A + 400 g B)	ART.AGT-316

[See the product data sheet for more information.](#)

Silicone potting compound 047 (ThermoConductive)



Two-component silicone cross-linking filling compound within the additive system with thermal conductivity of 1.5 W/mK. The filling compound perfectly protects electronics against adverse environmental conditions and protects sensitive modules against vibrations. After curing it becomes a hard, white solid. It provides an excellent electrical insulation. The material protects electronic and telecommunication systems against environment and is used for stiffening and securing. The cross-linking time may be shortened by using a higher temperature (6h ~ 70°C). It is perfect for flooding and filling. The operating range in variable temperatures from -50°C to 180°C.

- Application:**
- air-tight sealing and environmental protection of electronic and telecommunications systems;
 - energy converters;
 - power supply units;
 - vehicle electronics;
 - motion control;
 - telecommunications;
 - excellent material for LED applications.

Filling compound properties (after cross-linking) 1÷1:	
Viscosity at 25°C	2500 ± 500 cP
Shelf life at 25°C	approx. 70 min
Geling time at 25°C	max. 24 h
Thermal conductivity	1,5 W/mK
Operating temperature	from -50°C to 180°C
Consistency after cross-linking	solid (white rubber)

Safety:
The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

Silicone potting compound 047 (ThermoConductive)

Test of cross-linked sampled seasoned in a room temperature for 48 hours in laboratory conditions.		
Parameter	Unit	Result
Specific volume resistivity at temp. 20 ± 5°C and relative air humidity of 65 ± 5% (ASTM D257)	ρv [Ωxm] [Ωxcm]	1,3x10 ¹¹ 1,3x10 ¹³
Specific surface resistivity at temp. 20 ± 5°C and air relative humidity of 65 ± 5% (ASTM D257)	ρs [Ω]	2,2x10 ¹³
Dielectric loss factor (tg δ) (ASTM D150) at the frequency of:		
	120 Hz	-
	1 kHz	0,112
	10 kHz	0,069
	100 kHz	0,019
Dielectric permittivity (εr) (ASTM D150) at the frequency of:		
	120 Hz	-
	1 kHz	4,38
	10 kHz	3,85
	100 kHz	3,65
Dielectric strength (PN-EN 60243-1)	[kV/mm]	14,4
Creeping current resistance (PN-EN 60112:2003)	CTI [V]	600

Packagings:	
Volume	Item Code
100 g (50 g A + 50 g B)	ART.AGT-317
1 kg (500 kg A + 500 g B)	ART.AGT-314

[See the product data sheet for more information.](#)



Two-component resin for filling and hermetisation of all components in electronics, telecommunications and radio-technics. It is characterized by excellent electric insulation and good adhesion to virtually all groups of materials. Epoxy resin is an excellent material with a very wide range of applications.

Application:

- for castings and covers to protect electrical components, such as coils, transformers, capacitors, resistors;
- cable ends connectors;
- excellent adhesion to a wide variety of substrates;
- good connection strength even in difficult weather conditions.

It retains its properties at high temperatures. Filling compound 141 is applied to: filling of entire components in electronics, electrical encapsulation and as an insulating and structural material, filling of capacitors, resistors, connectors, cable ends.

NOTE!

Filling compound 141 cannot be applied for filling and bonding parts with styroflex, as a contained modifier dissolves polystyrene.

Filling compound properties (after cross-linking) 100:10:	
Density at 25°C	1,16 g/cm³
Temperature resistance	50°C
Geling time at 25°C	~33 min
Consistency after cross-linking	hard (yellow solid)

Safety:

The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

Testing of cross-linked samples, within 7 days at a room temperature in laboratory conditions.		
Parameter	Unit	Result
Breaking stress PN-EN ISO 527-1:1998 PN-EN ISO 527 2:1998	[MPa]	40-60
Bending strength PN-EN ISO 178:2006	[MPa]	80-100
Compressive strength PN-EN ISO 604:2006	[MPa]	70-90
Hardness with the method of pressing a ball PN-EN ISO 2039-1:2002	[MPa]	100-120
Deflection temperature according to Martens PN-90/C-89025:1990	[°C]	50-55
Adhesive weld strength to compression PN-EN 1465:2003	[MPa]	min. 10
Adhesive weld strength with the method of bending with shearing PN-ISO 15108:2002	[MPa]	min. 2,5
Cross resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	[Ωxcm]	1,0x10 ¹⁵
Surface resistivity at 20 ± 5°C and air relative humidity of 65±5% (ASTM D257)	ρ _s [Ω]	1,0x10 ¹⁵
Dielectric strength (PN-EN 60243:2002)	[kV/mm]	20-25

Packagings:	
Volume	Item Code
100 g (100 g A + 10 g B)	ART.AGT-223
1 kg (1 kg A + 100 g B)	ART.AGT-258

[See the product data sheet for more information.](#)



Two-component resin for filling and hermetisation of all components in electronics, telecommunications and radio-technics. It is characterized by excellent electric insulation and good adhesion to virtually all groups of materials. Epoxy resin is an excellent material with a very wide range of applications.

Application:

- for castings and covers to protect electrical components, such as coils, transformers, capacitors, resistors;
- cable ends connectors;
- excellent adhesion to a wide variety of substrates;
- good connection strength even in difficult weather conditions.

Filling compound properties (after cross-linking) 100:12:	
Density at 25°C	1,16 g/cm³
Temperature resistance	100°C
Geling time at 25°C	~33 min
Consistency after cross-linking	hard (yellow solid)

Safety:
The product does not cause any hazard. It is not subject to **ADR/RID** regulations.

After hardening, within 7 days at a room temperature in laboratory conditions.		
Parameter	Unit	Result
Breaking stress PN-EN ISO 527-1:1998 PN-EN ISO 527 2:1998	[MPa]	60-80
Bending strength PN-EN ISO 178:2006	[MPa]	100-140
Compressive strength PN-EN ISO 604:2006	[MPa]	100-120
Hardness with the method of pressing a ball PN-EN ISO 2039-1:2002	[MPa]	100-130
Deflection temperature according to Martens PN-90/C-89025:1990	[°C]	90-110

Packagings:	
Volume	Item Code
100 g (100 g A + 12 g B)	ART.AGT-224
1 kg (1 kg A + 120 g B)	ART.AGT-259

[See the product data sheet for more information.](#)

Precision mechanics



Silicone Oil

Vaseline Oil



Viscous oil based on silicone reaching the most inaccessible places. It possesses high insulating properties, prevents from electrical discharges and effectively protects against moisture. It eliminates eddycurrent generation and corona discharges; compatible with most of materials.

Application:

- grease utilized at wire and cable drawing;
- means effectively preventing from shot-circuits and breakdowns;
- means applied in the range of temperatures from 50 to 250°C;
- prevents from electrical discharges effectively protects against moisture.

Physicochemical properties:		
	Aerosol	Fluid
Appearance	colourless gas	transparent
Density at 20°C	0,74 g/cm³	0,97 g/cm³
Kinematic viscosity at 25°C	20 mm²/s	50 mm²/s
Operating temperature	from -50°C to 250°C	

Packagings:		
Volume	Type of packaging	Item Code
50 ml	plastic bottle with applicator	ART.AGT-014
100 ml	plastic bottle with applicator	ART.AGT-015
300 ml	aerosol	ART.AGT-016
1 L	plastic bottle	ART.AGT-100
5 L	plastic bottle	ART.AGT-244



The agent used to lubricate machine parts and precision mechanisms. Non-staining, odourless, colourless, neutral in contact with plastics. Reduces friction, preserves elements exposed to weather conditions, and protects against the adherences of plastic or rubber products to the mould. Consistency of the preparation allows for a wide range of applications.

Application:

- the preparation reduces and limits friction;
- ideal for lubricating machinery and equipment, as well as any precision mechanisms;
- the oil effectively eliminates squeaks and scuffs, facilitates slipping;
- protects and preserves rubber and plastics.

Physicochemical properties:		
	Aerosol	Fluid
Appearance	colourless gas	transparent
Density at 20°C	0,85 - 0,88 g/cm³	
Kinematic viscosity at 40°C	66-74 mm²/s	

Packagings:		
Volume	Type of packaging	Item Code
50 ml	plastic bottle with applicator	ART.AGT-017
100 ml	plastic bottle with applicator	ART.AGT-018
300 ml	aerosol	ART.AGT-019
1 L	plastic bottle	ART.AGT-099
5 L	plastic bottle	ART.AGT-245

Silicon-free distributor for the forms

Metal cleaner



Product used in plastic processing. Does not contain silicone. May be used in the manufacture of products requiring further surface treatment. The formulation may be used universally and is suitable for most plastic materials. Can be used as a lubricant or an antiadhesive agent. Does not build up in the mould and does not lead to the formation of deposits, allowing good surface quality by reducing defect count and improving performance. Allows for subsequent painting or bonding without degreasing.

- Application:**
- as a lubricant or an antiadhesive agent;
 - extrusion of plastic materials;
 - vacuum-forming of plastics;
 - injection moulding of plastic materials;
 - manufacture of plastic laminates.

Physicochemical properties:	
State of matter	gas
Colour	colourless
Odour	characteristic
Relative density in 20°C	~0,91 g/cm³
Operating temperature	to 170°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
400 ml	aerosol	ART.AGT-228

Quickly and thoroughly cleans and degreases parts and elements of metal surface. Replaces mechanical removal of residues that may cause damage. Dries quickly, does not leave oily coating.

- Application:**
- perfectly suited for surface preparation before painting and varnishing;
 - removes some glues, greases, oils, fats, waxes, silicones, MS-polymers etc.



Physicochemical properties:	
State of matter	gas
Colour	colourless
Odour	characteristic
Density at 20°C	0,70 g/cm³
Solubility in water	slightly soluble

Packagings:		
Volume	Type of packaging	Item Code
400 ml	aerosol	ART.AGT-209

Penetrating and lubricating preparation



Penetrating and lubricating preparation provides long lasting protection against leaching and abrasion. The product easily reaches all the nooks and crannies. It actively displaces water, permanently adheres to the metal surface forming a moisture-resistant protective and lubricating layer. The product is a very effective penetrating mean that helps to loosen seized combinations of metals. Molybdenum disulfide contained in the preparation reduces friction of the components thus extending their life time. This improves conductivity of the electrical contacts, removes moisture from the ignition system and pipes, and prevents from corrosion of metal parts. The product protects rubber gaskets against harmful effects of the weather conditions. In addition, it prevents freezing and sticking of rubber to metal. It dries batteries pipes and terminals thereby preventing from wearing and short circuits.

Application:

- perfect for maintenance of weapons. Lubricating hinges. Battery terminals, steering lines in mowers and motorcycles;
- prevents from freezing of car locks in winter;
- it effectively loosens the protected parts (screws, threads, etc.);
- the product does not damage painted surfaces, rubber or aluminium.

Physicochemical properties:	
State of matter	gas
Odour	characteristic
Colour	transparent
Density at 20°C	~0,80 g/cm³
Operating temperature	from -20°C to 90°C

Packagings:		
Volume	Type of packaging	Item Code
100 ml	plastic bottle with applicator	ART.AGT-213

Preparation for dampers



The preparation is applied to protect and improve the dampers operation. It extends their service life, cleans and maintains, adds liquidity at operation. It shows anticorrosion properties. The product leaves a thin transparent protective layer, it prevents from deposition of dirt, grease. It does not contain silicone, teflon, graphite. It displaces water and reduces friction well, causing operation of even very old and neglected damper significantly improves in few moments after application.

Application:

- it displaces water and reduces friction.

Physicochemical properties:	
State of matter	gas
Colour	brown-russet
Odour	characteristic
Density at 20°C	~0,85 g/cm³
Operating temperature	from -40°C to 50°C

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-215

Ceramic grease

Product ideal for use on heavily mechanically and thermally loaded elements. Prevents metal „baking”. Has an anticorrosive and antiscoring effect - an excellent protecting agent. Facilitates the dismantling of parts that have been lubricated beforehand. Does not contain metal compounds or silicone. It is resistant to chemical substances, water and weather conditions.

- Application:**
- upon the installation of boilers, furnaces, motors, heating systems, water pumps;
 - exhaust systems;
 - mounting screws for collectors;
 - brake systems;
 - mounting screws for heads;
 - mounting screws for hubs;
 - ABS, ASR and ESP systems.



Physicochemical properties:	
State of matter	gas
Colour	white
Odour	characteristic
Density at 15°C	~0,90 g/cm³
Penetration without kneading	285 1/10 mm
Base oil viscosity	500 mm²/s
Drop point	infusible
Operating temperature	from -30°C to 1400°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-166
400 ml	aerosol	ART.AGT-177

Grease with molybdenum disulfide

The grease reduces friction of metal parts to a minimum. Provides long lasting protection against rinsing and abrasion. It perfectly protects elements of the suspension systems, steering systems, and any moving parts of the chassis.

- Application:**
- lubrication of all moving parts in mechanical and industrial vehicles operating in a humid environment (e.g. cranes, forklifts, jib cranes, hoists etc.).



Physicochemical properties:	
State of matter	gas
Colour	black
Odour	characteristic
Density at 20°C	~0,95 g/cm³
Release of oil from grease at 100°C within 24 hours	<5%
Penetration at 25°C after kneading	260-300 mm/10
Penetration at temp. -30°C	>150°C
Content MoS ²	3%
Drop point	>180°C
Operating temperature	from -30°C to 130°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-152
400 ml	aerosol	ART.AGT-174

Copper grease



Copper grease – a multi-use preparation used in the most difficult conditions and over a wide temperature range. Provides excellent lubrication, protection from friction wear, corrosion, and high temperatures.

Application:

- copper grease – a multi-use preparation used in the most difficult conditions and over a wide temperature range;
- provides excellent lubrication;
- protection from friction wear, corrosion, and high temperatures.

Physicochemical properties:	
State of matter	gas
Colour	copper
Odour	characteristic
Density at 15°C	~0,90 g/cm³
Penetration without kneading	290 1/10 mm
Base oil viscosity	500 mm²/s
Drop point	infusible
Operating temperature	from -20°C to 1000°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-151
400 ml	aerosol	ART.AGT-176

Graphite grease



Grease with graphite addition. Contains specially selected additives for excellent lubrication and effective corrosion protection. The addition of graphite increases the grease resistance to loads. It is characterised by water resistance.

Application:

- car springs;
- worm gears and toothed gears;
- threads and screws exposed to corrosive action;
- chains and other heavily loaded friction nodes operating at temperatures between -20°C and 60°C.

Physicochemical properties:		
	Paste	Gas
Odour	characteristic	
Colour	grey	
Density at 20°C	~0,9 g/cm³	
Solubility in water	insoluble	
Water content	2%	
Penetration after working at 25°C	270 mm/10	
Drop point	85°C	
Operating temperature	from -20°C to 60°C	

Packagings:		
Volume	Type of packaging	Item Code
65 ml	squeezer	ART.AGT-079
100 ml	aerosol	ART.AGT-148
400 ml	aerosol	ART.AGT-175



Dry, grease-free, antiadhesive agent based on pure PTFE. Ideal for the lubrication of areas requiring slippage, especially where it is necessary to protect against contaminants existing in the environment. It has a very low coefficient of friction, it is resistant to aggressive chemicals, water, as well as mineral and synthetic oils. Indispensable wherever it is not recommended to use a regular lubricant due to the adhesion of dirt and where friction surface must be dry and clean. Operates within a wide range of temperatures.

Application:

- transmission gears and pinions, gear wheels;
- rails and slider guides;
- belt, roller and slide conveyors;
- paper and textile industry;
- plastic processing industry;
- timing belts and chains, bearings, ropes;
- cutting tools;
- locks, connectors, pedals, window fittings, door hinge pins.

Physicochemical properties:	
State of matter	gas
Colour	white
Odour	characteristic
Density at 20°C	2,15 g/cm³
Operating temperature	to 250°C

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-165
400 ml	aerosol	ART.AGT-178

Protects against weathering, preserves surfaces, rubber, plastics, covers a wide range of operating temperatures: from -40°C to 250°C, features a very good chemical resistance to oxidation, water solutions of acids, bases, sulfur dioxide, ammonia.

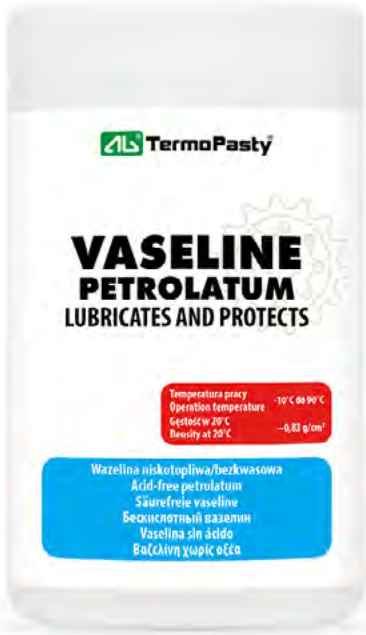
Application:

- printers, photocopiers, facsimile machines, gearboxes, scanners, audio-video equipment;
- sanitary equipment: traditional lever valves; seals, connectors, taps, valves, joints, etc.;
- clean lubrication: in the paper, textile and food industry;
- automotive industry: for the lubrication of cables in the armour of locks, hinges, bushings, bolts;
- the formulation effectively prevents friction and is an ideal protection against corrosion and freezing;
- electric devices suspended in air;
- maintenance of tourist and sports equipment such as: bicycles and inline skates;
- in print shops.



Physicochemical properties:	
State of matter	solid
Colour	white
Density at 20°C	1,0 - 1,1 g/cm³
Operating temperature	from -40°C to 250°C
Flash point	300°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
3,5 g	tube	ART.AGT-064
20 g	plastic box	ART.AGT-065
60 g	plastic box	ART.AGT-066
65 ml	squeezer	ART.AGT-081
1 kg	plastic box	ART.AGT-067



Technical petroleum jelly is a product intended for the nourishment and preservation of mechanical system components. Also suitable for friction nodes at a light intensity. Petroleum jelly protects against abrasion and the harmful effects of weathering. The formulation is designed for the protection of electrical contacts and lubrication of bearings.

Application:

- base component of various pastes;
- antifreeze agent for rubber seals;
- also used as a lubricant for low loaded mechanisms, office equipment and household appliances;
- provides a perfect grease protective film on rubber, plastic and leather products.

Physicochemical properties:	
Form at 20°C	solid
Colour	white
Density at 20°C	0,82 - 0,85 g/cm³
Melting point	54°C
Solidification temperature	48°C
Sulphated ash	max. 0,05%
Kinematic viscosity at 100°C	4 - 20 mm²/s

Packagings:		
Volume	Type of packaging	Item Code
20 g	plastic box	ART.AGT-068
35 g	metal box	ART.AGT-069
65 ml	squeezer	ART.AGT-077
500 g	plastic box	ART.AGT-062
900 g	plastic box	ART.AGT-070
8 kg	plastic box	ART.AGT-063



Machine cup grease

Machine Oil



Product designed for lubrication of various bearings, joints and guideways. It works in temperatures from -30°C to 140°C at high loads. Resistant to washing-out with cold water. Provides protection against corrosion.

- Application:**
- bearings;
 - guideways;
 - provides protection against corrosion.

Physicochemical properties:	
State of matter	paste
Colour	brown
Odour	characteristic, typical oil
Density at 20°C	~0,90 g/cm³
Penetration after kneading at 25°C	280 0.1 mm
Lubricating properties; important welding	245 daN
Drop point	268°C
Operating temperature	from -30°C to 140°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
65 ml	squeezer	ART.AGT-078

A product designed to lubricate lightly loaded industrial machine parts.

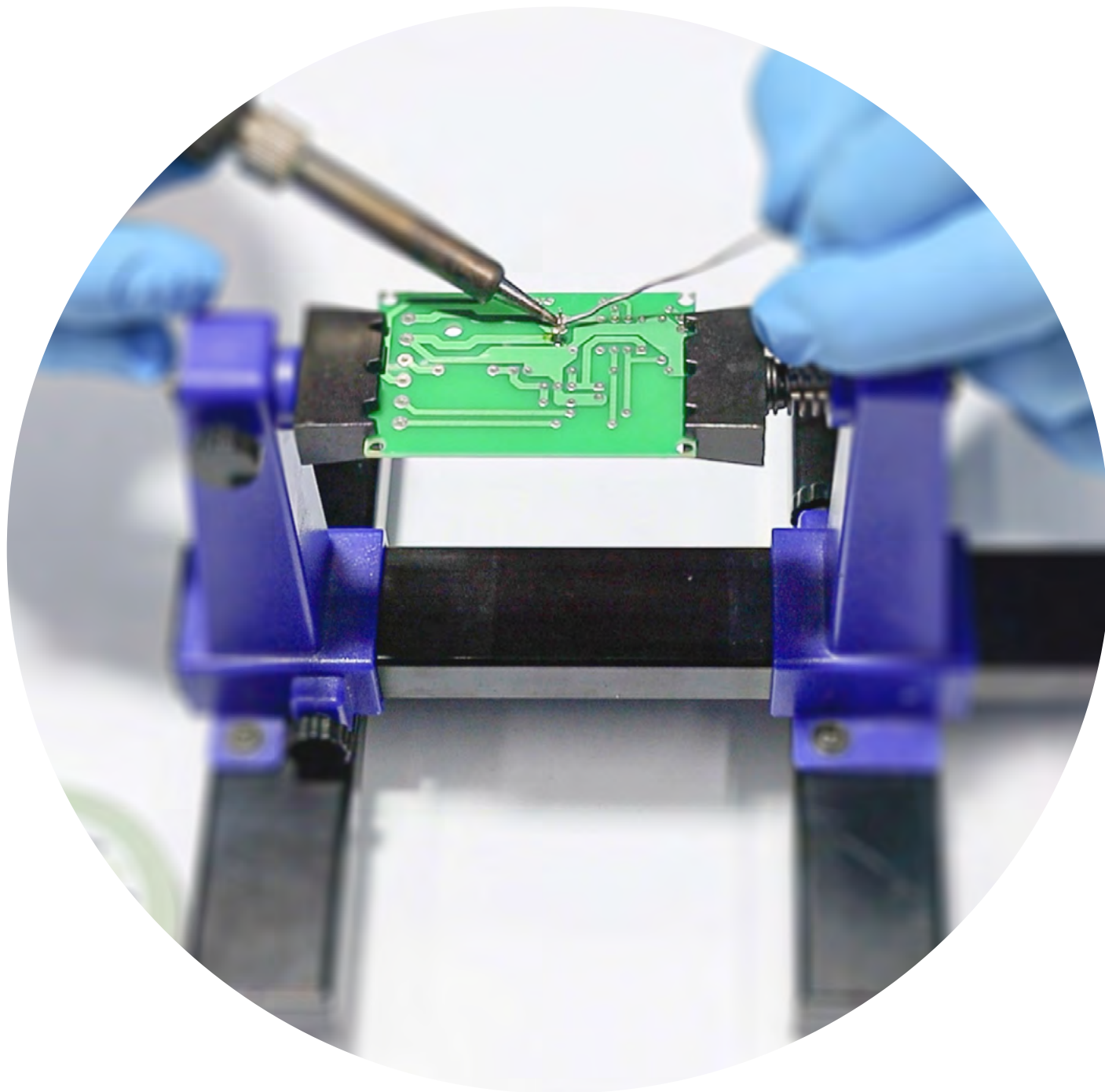
- Application:**
- sliding and rolling bearings;
 - guides;
 - closed and open mechanical gears;
 - spindles;
 - auxiliary friction nodes;
 - locks, hinges;
 - household appliances.



Physicochemical properties:	
Dynamic viscosity at 20°C	25,0 - 80,0 mPas
Kinetic viscosity at 20°C	20,5 - 23,0 cSt
Relative density at 15°C	0,830 - 0,855
Flash point	min. 180°C
Colour	clear, white
Cloud-point	max. -15°C
Refractive index at 25°C	1,475 - 1,480
Density at 25°C	0,825 - 0,850
Easily carbonizable substances	by standard

Packagings:		
Volume	Type of packaging	Item Code
65 ml	squeezer	ART.AGT-080

Soldering and welding



Butane Gas Refill



High quality butane for manual soldering irons. The container is equipped with a universal valve used to fill any type of gas soldering irons.

Physicochemical properties:	
Physical state	gaseous at 20°C
Odour	characteristic
Melting point	-187,62°C (propane), -138,3°C (butane)
Flash point	-95°C (propane), -60°C (butane)
Flammability	extremely flammable aerosol
Vapours pressure	2,3-3,9 bar
Relative density	not determined
Solubility in water	insoluble
Autoignition temperature	470°C (propane), 365°C (butane)

Packagings:		
Volume	Type of packaging	Item Code
200 ml	aerosol	ART.AGT-266

Kontakt PCB PLUS



PCB cleanser is designed to clean any residues after soldering from the surfaces of printed circuit boards. It dissolves flux residues, including rosin. The liquid does not attack the substrate or structural elements of printed circuit boards. Special brush allows to precisely access to the cleaned surface, for this reason it may remove even the smallest particles and debris. Perfect for cleaning PCBs after repair and assembly.

Application:

- the product does not leave deposits;
- evaporates very quickly;
- removes residues after soldering;
- perfect in any electronics service;
- the product does not react with most plastics used in electronics.

Physicochemical properties:	
State of matter	gas
Odour	characteristic, alcoholic
Colour	transparent
Density at 20°C	0,79 g/cm³
Viscosity at 20°C	22,8 cP
Solubility in water	dissolves

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-237
400 ml	aerosol	ART.AGT-238



The product protects the printed circuit boards against oxidation and corrosion during storage. This allows for faster soldering and prevents from „cold solders”. The application method enables easy distribution of the product on boards. It can be used during production, repair, maintenance and service.

Flux type: rosin
Type of flux: RMA

- Application:
- protection of PCB against oxidation;
 - applied in the production of printed circuit boards immediately after etching;
 - prevents from contamination during assembly;
 - it allows for easier soldering of heavily oxidized surfaces.

Physicochemical properties:	
Physical state	gas
Colour	amber
Density at 20°C	0,8 ± 0,1 g/cm³
Viscosity at 20°C	23,1 cP
Drying time	20 - 30 min

Packagings:		
Volume	Type of packaging	Item Code
100 ml	aerosol	ART.AGT-235

It meets the requirements of ISO 9454 typ 1111 / J-STD-004 ROL0.

The gel fluxing agent is a thickened rosin fluxing agent of the RMA class used for SMT assembly and repairs. The gel fluxing agent should be applied through a screen, stencil or from a syringe. Activators used to produce the fluxing agent allow for leaving its residues after the soldering process on the package (provided the production process does not include the washing phase).

- Application:
- SMT repair and assembly;
 - good solderability on surfaces: Ag, Cu, Au, Zn, Cd and SnPb.



Physicochemical properties:	
Appearance	paste
Colour	amber
Density at 80°C	approx. 1,0 g/cm³
Flash point	>150°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
1,4 ml	syringe	ART.AGT-047
10 ml	cartridge	ART.AGT-179
14 ml	syringe	ART.AGT-088
100 cm³	plastic box	ART.AGT-089
1 kg	plastic box	ART.AGT-310

Easy Print /Sn62 Pb36 Ag2/

Easy Print /Sn96,5 Ag3 Cu0,5/



Paste for soldering of surface-mounted (SMD) components.

- Application:**
- resistant to solderballing (mid chip solderballing);
 - good adhesion to components for over 24hrs after application;
 - exhibits long stencil life even for 8hrs of continuous printing, prolonged usability (stencil life);
 - low level of colourless, non-corrosive soldering residues (no clean), that are flexible enough to allow penetration of tester needles;
 - fine pitch;
 - printing with squeegee speed up to 150mm/s.

Physicochemical properties:	
Type of solder	Sn62Pb36Ag2
Classification of flux (standard J-STD - 004)	REL - 0
Paper chromatography test on Clfiz (standard IPC TM 650)	satisfy (REL - 0)
Density (standard IPC-TM 650T)	≈ 4,6 g/cm ³
Particle size (standard IPC-TM 650T)	25-45 μm
Tackiness (standard IPC J-STD - 005)	1,0 G/mm ² after 24h
Printability	more than 8h
SIR-IPC (standard IPC J-STD 004 (85°C, w 85%))	>2,6*10 ⁹ Ω, after 7 days

Symbole:
SIR - Surface Insulation Resistance
IPC - J STD 004/ 005, IPC - TM650 - American standards defining technical requirements for pastes and fluxes

Packagings:		
Volume	Type of packaging	Item Code
1,4 ml	syringe	ART.AGT-023
20 g	cartridge	ART.AGT-024
40 g	cartridge	ART.AGT-025
250 g	plastic box	ART.AGT-031
500 g	plastic box	ART.AGT-027



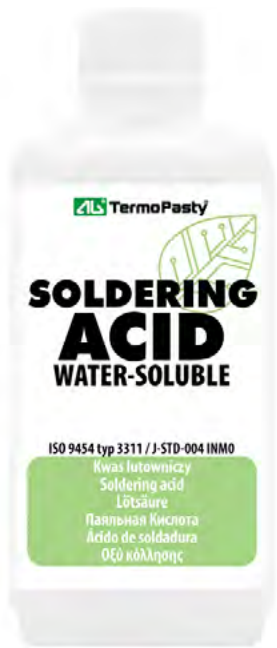
Paste for soldering of surface-mounted (SMD) components.

- Application:**
- resistant to solderballing (mid chip solderballing);
 - good adhesion to components for over 24hrs after application;
 - exhibits long stencil life even for 8hrs of continuous printing, prolonged usability (stencil life);
 - low level of colourless, non-corrosive soldering residues (no clean), that are flexible enough to allow penetration of tester needles;
 - fine pitch;
 - printing with squeegee speed up to 150mm/s.

Physicochemical properties:	
Type of solder	Sn96,5Ag3Cu0,5
Classification of flux (standard J-STD - 004)	REL - 0
Paper chromatography test on Clfiz (standard IPC TM 650)	satisfy (REL - 0)
Density (standard IPC-TM 650T)	≈ 4,6 g/cm ³
Particle size (standard IPC-TM 650T)	25-45 μm
Tackiness (standard IPC J-STD - 005)	1,0 G/mm ² after 24h
Printability	more than 8h
SIR-IPC (standard IPC J-STD 004 (85°C, w 85%))	>2,6*10 ⁹ Ω, after 7 days

Symbole:
SIR - Surface Insulation Resistance
IPC - J STD 004/ 005, IPC - TM650 - American standards defining technical requirements for pastes and fluxes

Packagings:		
Volume	Type of packaging	Item Code
1,4 ml	syringe	ART.AGT-028
20 g	cartridge	ART.AGT-029
40 g	cartridge	ART.AGT-030
250 g	plastic box	ART.AGT-026
500 g	plastic box	ART.AGT-032



Preparation intended for soldering poorly solderable nickel-plated surfaces (**ISO 9454 typ 3311 / J-STD-004 INMO**).

- Application:**
- nickel-plated surfaces.

Physicochemical properties:	
Colour	colourless
Density at 20°C	1,2 g/cm³
Viscosity at 20°C	10 cP
pH	<1
Odour	no unpleasant odour
Solubility in water	unlimited
Content of non-volatile substances	min. 28%

Packagings:		
Volume	Type of packaging	Item Code
35 ml	plastic bottle	ART.AGT-117
50 ml	plastic bottle with a brush	ART.AGT-253
100 ml	plastic bottle	ART.AGT-246
100 ml	plastic bottle with a brush	ART.AGT-319
500 ml	plastic bottle	ART.AGT-272
1 L	plastic bottle	ART.AGT-271

Rosin-free, liquid, highly-active fluxing agent (**ISO 9454 typ 2124 / J-STD-004 ORH1**) is a water-based solution of organic compounds. Used for applying liquid Sn60/Pb alloy on printed circuit boards in roll tinner.

- Application:**
- used for applying liquid Sn60/Pb alloy on printed circuit boards in roll tinner.

Physicochemical properties:	
Appearance	transaprent liquid
Odour	pungent, alcoholic-glycerine
Density at 20°C	0,85 g/cm³
Content of non-volatile substances	min. 12%
pH (1% aqueous solution)	2
Boiling point temperature	80-105°C
Solubility in water	complete

Packagings:		
Volume	Type of packaging	Item Code
100 ml	plastic bottle with a brush	ART.AGT-110



Flux AG5

Flux LP1



A liquid, rosin-free, medium-active fluxing agent (**ISO 9454 typ 2234 / J-STD-004 ORM0**), which is an alcoholic solution of organic compounds. Used for high temperature (300-400°C) tinning and soldering of elements coated with polyurethane varnish and soldering silver-plated and tinned elements.

Application:

- high-temperature tinning and soldering of elements coated with polyurethane varnish;
- soldering of silver-coated and tinned elements.

Physicochemical properties:	
Appearance	transaprent liquid
Odour	alcohol and resin
Density at 20°C	0,86 g/cm³
Content of non-volatile substances	min. 15%
pH (1% aqueous solution)	6,4
Solubility in water	partial

Packagings:		
Volume	Type of packaging	Item Code
100 ml	plastic bottle with a brush	ART.AGT-040
500 ml	plastic bottle	ART.AGT-071
1 L	plastic bottle	ART.AGT-072



A liquid, chlorine-free, medium-active fluxing agent (**ISO 9454 typ 2233 / J-STD-004 ORLO**), being an alcoholic solution of organic compounds with a low solids content of ~4%. Designed for the mechanized soldering of printed circuit boards on a double wave of binder in surface mounting.

Application:

- soldering printed circuit boards on a binder wave.

Physicochemical properties:	
Appearance	liquid, straw-coloured
Odour	pungent, alcoholic
Density at 20°C	0,8 g/cm³
Content of non-volatile substances	min. 4%
pH (1% aqueous solution)	3,34
Solubility in water	partial with deposit formation

Packagings:		
Volume	Type of packaging	Item Code
100 ml	plastic bottle with a brush	ART.AGT-041
500 ml	plastic bottle	ART.AGT-073
1 L	plastic bottle	ART.AGT-074

Flux RF800

Flux TK83



A medium-active rosin fluxing agent, perfectly moisturising Cu and PbSn surfaces. In addition, the product does not require washing. Complies with the J-STD-004 ROLO standard.

Application:

- machine soldering in professional and utility electronics;
- whitening of wires;
- mixed assembly;
- soldering passivated surfaces.



A liquid, medium-active fluxing agent (ISO 9454 typ 1134 / J-STD-004 ROLO), an alcohol-based solution of rosin with an addition of organic activators, maximum soldering temperature 280°C. Solid parts content 24%. Perfectly suited for manual tinning to restore solderability.

Application:

- achine soldering in professional and utility electronics;
- whitening of wires;
- mixed assembly;
- soldering passivated surfaces.

Physicochemical properties:	
Physical state	liquid
Colour	amber
Initial boiling point	82°C
Flash point	13°C
Solubility in water	soluble
Solids content	4%
pH (5% aqueous solution)	3,4
Density at 25°C	0,795 g/cm³
Acid number	18,5 mgKOH/g

Packagings:		
Volume	Type of packaging	Item Code
15 ml	plastic bottle with applicator	ART.AGT-042
50 ml	plastic bottle with a brush	ART.AGT-248
100 ml	plastic bottle with a brush	ART.AGT-109
1 L	plastic bottle	ART.AGT-043

Physicochemical properties:	
Appearance	liquid, amber
Odour	alcohol and resin
Density at 20°C	0,86 g/cm³
Content of non-volatile substances	min. 24%
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
8 ml	marker	ART.AGT-249
50 ml	plastic bottle with a brush	ART.AGT-044
100 ml	plastic bottle with a brush	ART.AGT-045
500ml	plastic bottle	ART.AGT-075
1 L	plastic bottle	ART.AGT-076



A liquid, rosin-free, highly active fluxing agent (**ISO 9454 typ 3314 / J-STD-004 INH1**), being a mixture of non-organic and organic compounds. Used for soldering various types of steel (including acid resistant one) and components made of chromium-nickel alloys.

Application:

- soldering elements of various types of steel;
- soldering of chromium-nickel elements;
- soldering of stainless steel elements.

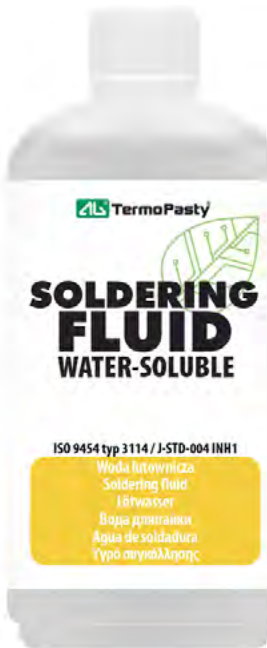
Physicochemical properties:	
Appearance	viscous liquid, transparent
Odour	pungent, irritating
Density at 20°C	1,20 g/cm³
pH (1% aqueous solution)	1,2
Solubility in water	dissolves

Packagings:		
Volume	Type of packaging	Item Code
100 ml	plastic bottle with a brush	ART.AGT-046
500 ml	plastic bottle	ART.AGT-082
1 L	plastic bottle	ART.AGT-083

Highly active liquid, intended for soldering soft galvanized sheets and pure zinc. Enables quick and reliable soldering through good wetting of the joined surfaces. It is used for soldering gutters and roofing made of galvanized sheet. It perfectly dissolves oxides and does not damage the surface. Product according to **ISO 9454 typ 3114 / J-STD-004 INH1**.

Application:

- soldering of gutters and roof coverings made of galvanized sheet.



Physicochemical properties:	
Appearance	slightly cloudy
Density at 20°C	1,19 g/cm³
pH	5,5±1

Packagings:		
Volume	Type of packaging	Item Code
50 ml	plastic bottle with a brush	ART.AGT-204
100 ml	plastic bottle with a brush	ART.AGT-205



Flux with the admixture of activators to facilitate soldering (**ISO 9454-1 typ 1131 / J-STD-004 ROLO**). The product demonstrates activity similar to that of a soldering paste. Used as a base component for a reference flux (25% solution in isopropyl alcohol). It prevents the oxidation of joints and eliminates the formation of cold solder joints.

Application:

- very good flux when soldering with a tin and lead alloy;
- used as a base component for a reference flux (25% solution in isopropyl alcohol).

Physicochemical properties:	
Colour on Livibon scale	WW
Substances soluble in toluene	max. 0,05%
Softening temperature min.	min. 78°C
Acid number	160-190 mg KOH/g
Ash content	max. 0,04%
Iodine value	5-25 gI2/100g
Saponification number	170-220 mg KOH/g
Volatile lipid content	max. 2%

Packagings:		
Volume	Type of packaging	Item Code
20 ml	metal box	ART.AGT-033
40 g	metal box	ART.AGT-034
100 ml	metal box	ART.AGT-035
500 g	stringed bag	ART.AGT-094
1 kg	plastic box	ART.AGT-268

Soldering paste in accordance with **ISO 9454-1 typ 1134 / J-STD-004 ROLO** is a medium-active fluxing agent with a paste consistence, based on rosin and organic halogen activator, facilitates soldering copper, silver-plated, galvanised, and nickel-plated elements. It is used for whitening and soldering in radio and telecommunication technology and in the assembly of electrical equipment. Fluxing agent residues after soldering do not cause corrosion on non-ferrous metals and can remain on the welds. (Recommended cleaning with alcohol-based remover). Product used primarily where rosin is not sufficient.

Application:

- whitening and soldering in radio and telecommunication technology;
- assembly of electrical appliances;
- soldering copper, silver-plated, galvanised, and nickel-plated elements.

Physicochemical properties:	
Appearance	paste
Colour	amber
Odour	characteristic
Density at 80°C	~0,95 g/cm³
Operating temperature	from 50°C to 200°C
Solubility in water	insoluble

Packagings:		
Volume	Type of packaging	Item Code
20 ml	metal box	ART.AGT-036
40 g	metal box	ART.AGT-037
100 ml	metal box	ART.AGT-038



Product according to **DIN EN 29454-1 3.1.1.C, DIN 8511 F-SW 21**. Paste-formed flux designed for soldering of various metals, including mainly: copper, brass, galvanized steel sheets and tin-plating of steel sheets. Tin in wires or bars may be used for soldering.

- Application:**
- flux for soldering copper and brass.

Physicochemical properties:	
Colour	yellow
Density at 20°C	0,95 g/cm³
pH	>7

Packagings:		
Volume	Type of packaging	Item Code
40 ml	plastic container	ART.AGT-203

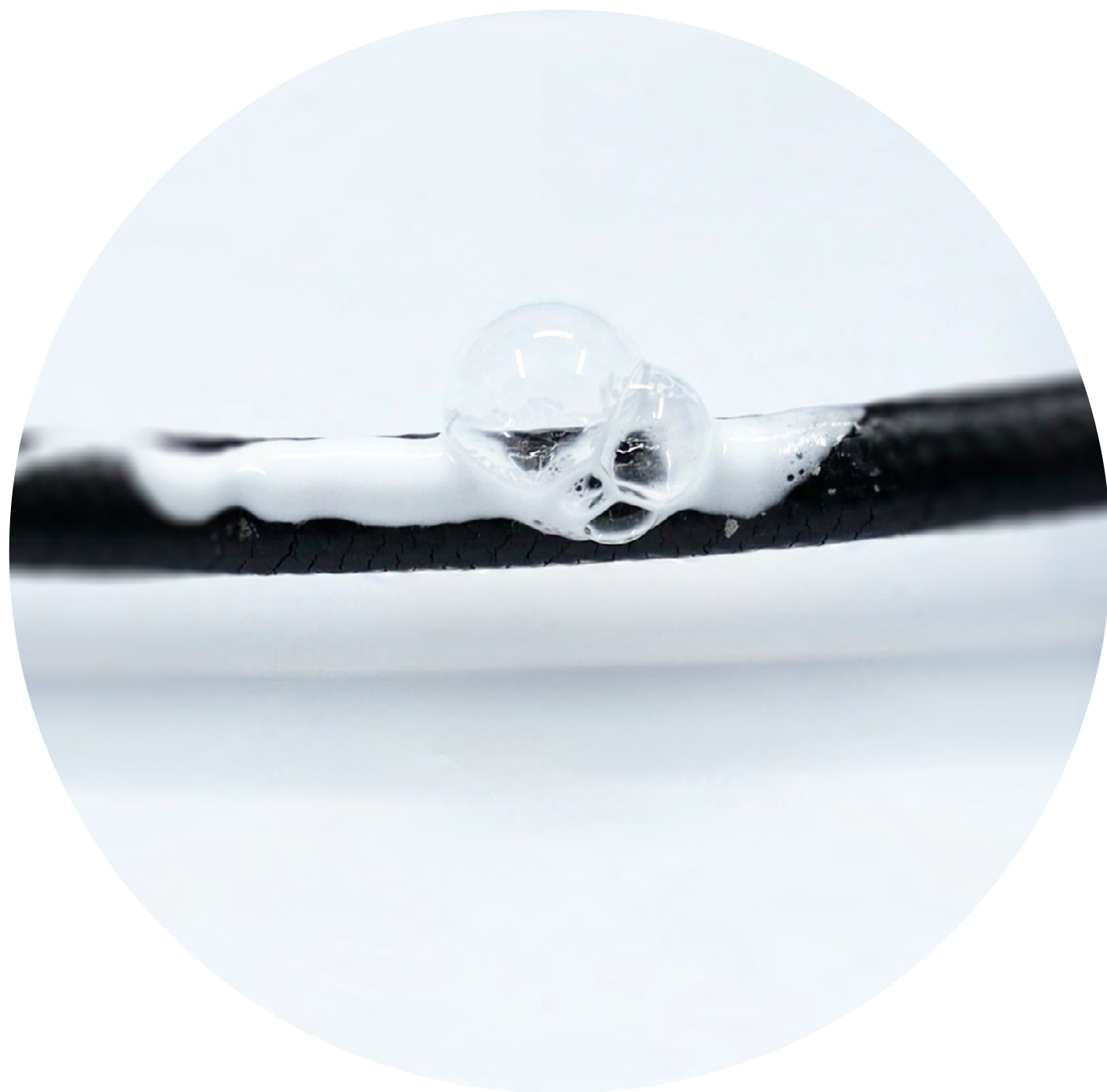
Flux for soldering and welding with brass solders (**PN-EN ISO 18496 / FH21**). Dissolves metal oxides and facilitates bonding between the solder and the soldered material. Borax has a fine crystalline structure without fluoride content.

- Application:**
- for soldering and welding with brass solders.



Physicochemical properties:	
Density at 20°C	1,719 g/cm³
Melting point	741°C
Main ingredient content	min. 99,90%
Boric oxide content	~ 37%
Sodium oxide content	~ 16,5%
Sulphate content	max. 135 mg/kg
Chloride content	max. 70 mg/kg
Iron content	max. 10 mg/kg
Granulation + 1,18 mm	max. 4%
Granulation - 0,06 mm	max. 4%

Packagings:		
Volume	Type of packaging	Item Code
500 g	stringed bag	ART.AGT-121



Testers



Sensor tester

Leak tester



Product intended to test the carbon monoxide detectors and cigarettes smoke detectors. It allows to easily and quickly check the correct operation of CO sensor. It does not corrode plastic parts, stain, and pollute the detector. The product is completely safe. If it is used in accordance with the recommendations, it does not endanger people and domestic animals. Attempt execution time is approx. 2-3 minutes.

Recommended for:

- technical services;
- chimney plants, companies dealing with sales and installation of carbon monoxide detectors;
- individuals holding CO sensors.

Physicochemical properties:	
State of matter	gas
Colour	colourless
Odour	indefinite
Filling pressure at 15°C	200,0 bar-g
Filling pressure at 15°C	203,943 kg/cm ²
Content at 0°C, 1013 mbar	8,921 Nm ³

Packagings:		
Volume	Type of packaging	Item Code
400 ml	aerosol	ART.AGT-212

Unique, odourless water-based agent, free of hazardous solvents, silicones and oils. Discloses any leakage of gas or air even under very low pressure. It is used in the gas, heating, automotive, welding etc. industries. It has a special 360° valve that allows it to be used in any position, even upside down.

Application:

- in the gas industry;
- heating industry;
- automotive industry;
- welding industry.

Physicochemical properties:	
Product form	foam
Density at 20°C	0,99 g/cm ³
pH	6-8
Solubility in water	dissolves

Packagings:		
Volume	Type of packaging	Item Code
400 ml	aerosol	ART.AGT-133

[See the product data sheet for more information.](#)





Office





Effective removal of self-adhesive labels. Substances included in the product make the glue lose its tackiness. Does not react with most of surface materials. Moreover, the preparation easily removes natural fats, resin or finger marks. Caution: The preparation may insignificantly dissolve colour prints under a label that is removed or dissolve some plastics - be careful!

- Application:**
- office and IT equipment;
 - cash registers;
 - labelling and packaging machines;
 - household appliances.

Physicochemical properties:		
	Aerosol	Fluid
State of matter	gas	liquid
Colour	transparent	
Density at 20°C	0,80±0,01 g/cm³	
Viscosity at 20°C	~30 cP	

Packagings:		
Volume	Type of packaging	Item Code
300 ml	aerosol	ART.AGT-013
400 ml	aerosol	ART.AGT-171
1 L	metal canister	ART.AGT-102

A printing mechanism cleaning agent for printers (paper feeding mechanisms, printhead drive components etc.), cleans heads in needle printers, the preparation does not react with plastics used in printers.

- Application:**
- printers.



Physicochemical properties:	
Product form	aerosol
State of matter	gas
Colour	transparent
Odour	alcoholic
Density at 20°C	0,70±0,02 g/cm³
Explosive properties	does not show
Flammability properties	extremely flammable aerosol
Flash point	undefined

Packagings:		
Volume	Type of packaging	Item Code
400 ml	aerosol	ART.AGT-185

Compressed gas



The product allows intense concentrated air supply in inaccessible areas. Brilliantly removes dust from various, even most inaccessible elements, especially where it is not possible to apply wet cleaning or solvents and where it is required to completely remove dust, to ensure absolute cleanliness. Leaves no residues.

Application:

- computer stations;
- office equipment;
- cash registers;
- facsimile machines;
- printers;
- photographic equipment;
- precision mechanics;
- telecommunications.

Physicochemical properties:	
Density at 15°C	0,57 g/cm³
Appearance	liquefied, colourless gas
Water	does not contain
Odour	no unpleasant odour
Relative vapour pressure at 20 °C	351 kPa
Melting point	-187,6°C (propane), -138,3°C (butane)
Boiling point temperature	-42,1°C (propane), -1°C (butane)
Flash point	-95°C (propane), -60°C (butane)
Total sulphur content	<0,25 mg/kg
Flammability	extremely flammable gas
Vapours pressure	2,7-4,0 bar
Vapour density relative to air	heavier-than-air gas
Solubility in water	insoluble, soluble in ethanol and ethyl ether
Autoignition temperature	470°C (propane), 365°C (butane)

Packagings:		
Volume	Type of packaging	Item Code
300 ml	aerosol	ART.AGT-229
400 ml	aerosol	ART.AGT-216
600 ml	aerosol	ART.AGT-233

Non-flammable compressed gas



NF incombustible gas is classified as non-flammable, however, its vapours may show flammability in elevated temperatures. It is recommended to not exceed ambient temperature of 28°C when using with live electrical devices.

Application:

- electronics;
- audio-video;
- precision mechanics;
- electromechanics.

Physicochemical properties:	
State of matter	gas
Colour	transparent
Odour	no unpleasant odour
Water	does not contain
Density at 15°C	1,2 g/cm³
Pressure at 20°C	420 kPa
Flash point	>750°C
Flow rate	17g/10s
pH	neutral
Solubility in water	1,5 g/l

Packagings:		
Volume	Type of packaging	Item Code
200 ml	aerosol	ART.AGT-255

Fluid and foam for cleaning LCD/TFT screens

Plastic foam and fluid



The agent removes all kinds of impurities from liquid crystal displays LCDs / TFTs in laptops, and monitors. Perfectly removes dust and dirt, leaving a pleasant scent.

- Application:**
- removes dust and stains from screens in laptops, tablets, and TVs.

An effective preparation for cleaning all plastic surfaces (enclosures of monitors, computers, TV sets, window frames, computer hardware etc.). Removes dust, grease, fingerprints, dirty streaks, nicotine deposits etc., leaves no smudges.

- Application:**
- monitor enclosures;
 - computer enclosures;
 - TV enclosures;
 - window frame enclosures;
 - computer equipment enclosures.



Physicochemical properties:		
	Foam	Fluid
State of matter	gas	liquid
Colour	white	transparent
Odour	odorless	
Density at 20°C	0,98±0,02 g/cm³	
pH	6,00±2,00	
Solubility in water	dissolves	
Explosive properties	does not show	
Flammability properties	extremely flammable aerosol	does not show
Flash point	undefined	

Physicochemical properties:		
	Foam	Fluid
State of matter	gas	liquid
Colour	white	transparent
Odour	characteristic of the raw materials used	
Density at 20°C	0,98±0,02 g/cm³	
pH	5,00-7,00	
Solubility in water	dissolves	
Explosive properties	does not show	
Flammability properties	extremely flammable aerosol	extremely flammable liquid and vapor
Flash point	undefined	

Packagings:		
Volume	Type of packaging	Item Code
100 ml	plastic bottle with atomizer	ART.AGT-188
200 ml	aerosol	ART.AGT-039
250 ml	plastic bottle with atomizer	ART.AGT-182
400 ml	aerosol	ART.AGT-186

Packagings:		
Volume	Type of packaging	Item Code
250 ml	plastic bottle with atomizer	ART.AGT-187
300 ml	aerosol	ART.AGT-168
400 ml	aerosol	ART.AGT-170
1 L	plastic bottle	ART.AGT-104
5 L	plastic canister	ART.AGT-320



An effective and reliable preparation for cleaning all glass surfaces, computer and office equipment (monitors, photocopiers, scanners, household appliances and TVs etc.). Cleans glass surfaces from dust, nicotine, fats, and other typical dirt, leaving no streaks.

- Application:**
- monitors;
 - photocopiers;
 - scanners;
 - household appliances and electronics.

Physicochemical properties:		
	Foam	Fluid
State of matter	gas	liquid
Colour	white	transparent
Odour	odorless	
Density at 20°C	0,98±0,02 g/cm³	
pH	5,00-8,00	
Solubility in water	dissolves	
Explosive properties	does not show	
Flammability properties	extremely flammable aerosol	extremely flammable liquid and vapor
Flash point	undefined	

Packagings:		
Volume	Type of packaging	Item Code
250 ml	plastic bottle with atomizer	ART.AGT-189
300 ml	aerosol	ART.AGT-167
400 ml	aerosol	ART.AGT-169
1 L	plastic bottle	ART.AGT-103

The liquid quickly and effectively cleans even the most durable dirt off of the surface of whiteboards. Removes marker traces, smudges, and discolourations resulting from prolonged whiteboard use.

- Application:**
- whiteboards.



Physicochemical properties:	
Appearance	colourless liquid
Density at 15°C	0,8±0,05 g/cm³

Packagings:		
Volume	Type of packaging	Item Code
250 ml	plastic bottle with atomizer	ART.AGT-095

Shredder oil



Oil intended for shredders Ensures proper operation of the cutting knives and protects the device against frequent failures. Equipment maintenance reduces dusting, prevents paper jamming, clippings appearances on the knives and keeps the mechanism in good condition.

Physicochemical properties:	
Appearance	colourless liquid
Odour	no smell
Kinematic viscosity at 40°C	66-74 cP
Density at 20°C	0,85-0,88 g/cm³
Vapours pressure w 20°C	0,1 hPa
Flash point	>170°C

Packagings:		
Volume	Type of packaging	Item Code
250 ml	plastic bottle with applicator	ART.AGT-308

SmartGel + microfiber

Cleaning gel for LCD/TFT liquid-crystal displays of laptops, smartphones, tablets, iPads and monitors. Protect against children. Before cleaning the equipment, remove the plug from the power source. The manufacturer will not be held responsible for damage caused by improper use of the preparation. The gel does not contain alcohol (it is non-flammable).



Physicochemical properties:	
Physical state	gel/liquid with stronger viscosity
Colour	transparent
Odour	characteristic for the used aromatic compositions
Density at 20°C	0,98±0,02 g/cm³
Viscosity at 20°C	1200-1800 cP (20°C, 20 RPM)
pH	6 - 7
Solubility in water	100%
Explosive properties	does not show
Flammability properties	does not show
Flash point	does not show

Packagings:		
Volume	Type of packaging	Item Code
250 ml	plastic bottle with atomizer	ART.AGT-256

Laptop cleaning kit



Perfectly cleans LCD/TFT displays in laptops, satellite navigation devices, monitors, keyboards etc. The kit includes a 100 ml LCD/TFT liquid, a microfibre cloth and a keyboard cleaning stick.

Application:

- laptops;
- satellite navigation devices;
- monitors;
- keyboards.

Physicochemical properties:	
Cloth	
Cloth dimensions	15 x 18 cm
Cloth material	polyester and polyamide
Fluid	
Forma produktu	fluid
State of matter	liquid
Colour	transparent
Odour	odorless
Density at 20°C	0,98±0,02 g/cm³
pH	6,00±2,00
Solubility in water	dissolves
Explosive properties	does not show
Flammability properties	does not show
Flash point	undefined

Packagings:		
Volume	Type of packaging	Item Code
100 ml + cloth	cardboard box	ART.AGT-183

Cleaning sticks



Dust-free sticks for cleaning keyboards and hard-to-reach areas of electrical equipment. They leave no dust or scratches. Thanks to their good absorption (of cleaning fluids, water, isopropyl alcohol, oil), the sticks collect dust and clean the surface.

Application:

- electronic, optical devices;
- keyboards, monitors, laptops, computer cases;
- peripherals;
- components of printing equipment.

Physicochemical properties:	
Dimensions	25 mm (length of head) 15,5 mm (width of head) 122 mm (total length)
Durability	Isopropyl alcohol, water-based mixtures, oil
Manufacturing material	Polyurethane sponge + polypropylene

Packagings:		
Volume	Type of packaging	Item Code
1 set (20 pieces)	blister pack	ART.AGT-270

Microfibre cleaning cloth 30 x 30 cm



Perfect for cleaning laptops, monitors, keyboards, computer enclosures, printers, copiers, scanners, telephones, facsimiles, typewriters, and other devices of this type; cleans delicately. Does not leave streaks and impurities.

- Application:**
- laptops;
 - monitors;
 - computer enclosures;
 - keyboards;
 - printers;
 - copiers;
 - scanners;
 - telephones;
 - facsimiles;
 - typewriters.

Physicochemical properties:	
Dimension	30 x 30 cm
Basis weight	220 g/m²
Type	80% polyester 20% polyamide

Packagings:		
Volume	Type of packaging	Item Code
1 set (5 items)	grip seal bags with Euro hole	ART.AGT-257

Ultra-fine microfiber cloth

Perfect for cleaning laptops, monitors, keyboards, computer enclosures, printers, copiers, scanners, telephones, facsimiles, typewriters, and other devices of this type; cleans delicately. Does not leave streaks and impurities.

- Application:**
- laptops;
 - monitors;
 - computer enclosures;
 - keyboards;
 - printers;
 - copiers;
 - scanners;
 - telephones;
 - facsimiles;
 - typewriters.



Physicochemical properties:	
Dimension	15 x 18 cm
Basis weight	220 g/m²
Type	80% polyester 20% polyamide
Colour	blue

Packagings:		
Volume	Type of packaging	Item Code
1 item	blister	ART.AGT-184

Universal cleaning wipes



Wet cleaning wipes are intended for use on office equipment, helping to maintain efficient operation and good appearance of monitors, keyboards, computer casings, laptops, printers, copy machines, scanners, telephones, fax machines, typewriters etc.

- Application:**
- monitors;
 - keyboards;
 - computer casings;
 - laptops;
 - printers;
 - copy machines;
 - scanners;
 - telephones;
 - fax machines;
 - typewriters.

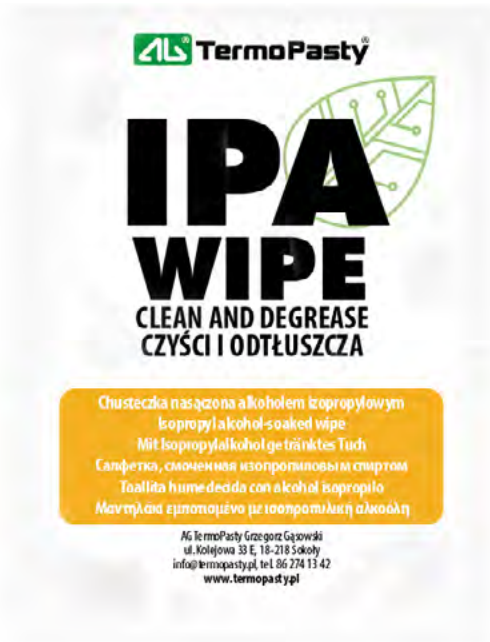
Physicochemical properties:	
Dimension	22 x 16 cm
Basis weight	23 g/m²
Colour	white
Type	non-woven fabric 45/m³

Packagings:		
Volume	Type of packaging	Item Code
1 set (24 items)	flow-pack	ART.AGT-173

IPA Wipe

Wipe soaked in isopropyl alcohol. Perfectly removes any contamination from optical elements and electronic devices. Does not leave marks and stains. Chemically neutral against commonly used materials. Convenient to use. Dimensions: 16 x 12,5 cm. Special package prevents drying of wipes for a period of 2 years.

- Application:**
- effectively remove dirt, dust and grease;
 - perfect for cleaning and degreasing any types of connectors, cables and optics etc.;
 - perfect for degreasing surfaces before application of AG TermoPads;
 - electronics, electrotechnics, optics, precision mechanics.



Physicochemical properties:	
Appearance	clear colourless liquid
Odour	characteristic
Colour	max.10 Pt-Co
Density at 20°C	min.0,79 g/cm³
Main ingredient content	min.99,7%
Acidity as acetic acid	max.0,01%
Distillation IBP	min. 82,0°C

Packagings:		
Volume	Type of packaging	Item Code
1 set (25 items)	sachet	ART.AGT-181

Detailed table of contents

Data contained in this document are consistent with the current state of our knowledge. They describe typical product properties and applications. However, it is up to the user to examine the suitability of this product for specific applications.

We deny liability for the obtained results on the grounds that application conditions lie beyond our control.



AG TermoPasty

Grzegorz Gąsowski

33E Kolejowa St., 18-218 Sokoły

phone +48 86 274 13 42

info@termopasty.pl

|

www.termopasty.com