

PROMAX

ELECTRONIC CONTACT CLEANER



CLEANING SOLVENT FOR INTEGRATED CIRCUITS & PRECISION EQUIPMENT

- CLEANS WITHIN SECONDS
- RAPID & COMPLETE EVAPORATION
- HIGH PURITY - LEAVES NO RESIDUE
- SAFE ON ALL MATERIALS
- NO DISMANTLING OF EQUIPMENT NECESSARY
- NO FLASH OR FIRE POINT
- LOW TOXICITY

保益電子設備接觸清潔劑

精密高靈敏度
電子元件及電
路板清潔溶劑

- 於數秒內除去污物
- 迅速、完全地蒸發乾淨
- 純度高，絕不會留下殘漬
- 不損壞任何物質
- 毋須折開設備
- 不會閃出火花
- 毒性低

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PROMAX ELECTRONIC CONTACT CLEANER

PROMAX ELECTRONIC CONTACT CLEANER contains 1,1,2-trichloro-1,2,2-trifluoroethane the technically proven high purity and extremely stable solvent used by the electronic industries for vapour degreasing and ultrasonic cleaning for decades.

This same product is now packed in an aerosol container which together with an inert propellant is ideally suited for removing light contaminants such as dust, lint, moisture and atmospheric oils from sensitive electronic equipment and integrated circuits.

The attributes of **PROMAX ELECTRONIC CONTACT CLEANER** are as follows :

- * **CLEANS WITHIN SECONDS**
- * **RAPID & COMPLETE EVAPORATION**
- * **HIGH PURITY - LEAVES NO RESIDUE**
- * **SAFE ON ALL MATERIALS**
- * **NO DISMANTLING OF EQUIPMENT NECESSARY**
- * **NO FLASH OR FIRE POINT**
- * **LOW TOXICITY**

PROMAX ELECTRONIC CONTACT CLEANER is non corrosive, non flammable and does not form explosive mixture with air.

Due to the relatively mild solvent strength of **PROMAX ELECTRONIC CONTACT CLEANER**, a wide range of sensitive plastic and/or metal parts can be subjected to cleaning processes without being harmed.

PROMAX ELECTRONIC CONTACT CLEANER reacts neutrally toward all materials used in the electronics, precision engineering, optical, electrotechnical and other industries.

PROMAX ELECTRONIC CONTACT CLEANER has been proven to be effective in the cleaning of highly sensitive electronic components and especially on printed circuits boards for removing dirt before and after soldering.

PROMAX ELECTRONIC CONTACT CLEANER leaves no residue behind to increase resistance.

It is very useful as a supplement to ultrasonic or vapour degreasing.

HOW DOES PROMAX ELECTRONIC CONTACT CLEANER WORKS?

The low surface tension of **PROMAX ELECTRONIC CONTACT CLEANER** gives good wetting properties and this coupled with the high density and the propellant force in the aerosol effectively removes oil, dust and other particles on the contact surfaces.

TYPICAL APPLICATIONS ARE LISTED BELOW:

Integrated Circuits	Gyroscopes
Optical Instruments	Oscilloscopes
Micro-Processors	Jewel bearings
Micro Relay Contacts	Potentiometers
Navigation Equipment	Synchronizers
Low Voltage Contacts	Transistors
Receivers & Transmitters	Tape Heads
Laboratory Equipment	Solenoids
Automatic Counter	Computer Heads
PC Cards/Modules	Marine Electronics Equipment
Condensers	Hi-Fi & Stereo Equipment
Video Heads	Microphones
Connectors	Meter Registers
Sockets & Plugs	Phonograph Needles
Alarm & Signal Systems	Telecommunication Equipment
Recorders	

PROMAX ELECTRONIC CONTACT CLEANER PROLONGS LIFE EXPECTANCY OF SENSITIVE COMPONENTS

Periodic spraying of critical components at regular intervals prolong life expectancy of components and does not permit formation of corrosion products or carbon deposits that cause leakage.

PHYSICAL PROPERTIES OF PROMAX ELECTRONIC CONTACT CLEANER:

Chemical denomination	1,1,2-trichloro-1,2,2-trifluoroethane
Chemical formula	CCl ₂ F-CClF ₂
Molecular Weight	187.4 g/mol
Boiling Point at 1.013 bar	47.6°C
Solidification Point	-35°C
Density of the Liquid at 20° C	1.575 Kg/dm ³
Density of the Liquid at 40°C	1.532 Kg/dm ³
Density at boiling point	1.510 Kg/dm ³
Heat of evaporation at 1.013 bar	146.8 KJ/Kg
Specific heat at 20°C	0.92 KJ/Kg.K
Refractive Index at 20°C	1.359
Relative dielectric strength (1.013 bar, nitrogen = 1)	3.9
Dielectric constant at 25°C	2.6
Surface tension at 25°C	19.0mN/m
Viscosity at 20°C	0.7 mPa.s
Evaporation number (ether - 1)	1.3
Solubility of water in liquid at 30°C	0.013g/100g
Solubility of water in liquid at 0°C	0.0036g/100 g
T.L.V. Value (Threshold Limit Values)	1000 ml/m ³ (ppm)
Flash Point	none, non-flammable
Acid Content	<0.001 mg KOH/g

SAFETY

PROMAX ELECTRONIC CONTACT CLEANER has a high TLV (Threshold Limit Value). The TLV value refers to the airborne concentration of a substance in form of gas, vapour or suspension of which it is expected that they will not lead to adverse effects when workers are repeatedly exposed during 8 hours per day in a 40 hour work week.

Comparative TLV Values of the various solvents are shown below:

	TLV (ppm)
Trichloroethylene	50
Perchloroethylene	50
1,1,1-trichloroethane	200
Dichloromethane (methylene chloride)	100
Acetone	1000
Methanol	200
Ethanol	1000
2-propanol (Isopropylalcohol)	400
1,1,2-trichloro-1,2,2-trifluoroethane	1000

PACK SIZE: 400 GM.