

## MRO 1002 – OFFLINE KLEANER CFC Free Contact Cleaner

### PRODUCT DESCRIPTION

'MRO 1002 - OFFLINE KLEANER' improves the performance and reliability of electrical/electronic equipment by cleaning contacts and components quickly and effectively. Prevents contact failures or malfunctions by dissolving and/or rinsing away contaminants, which holds moisture and causes corrosion or arcing. It is a highly effective cleaner that does not contain any CFC's, HCFC's, chlorinated solvents or any ozone depleting chemicals and is safe for use on most plastics, rubbers, metals and other elastomeric materials.

### BENEFITS

- Periodic planned application of 'MRO 1002 - OFFLINE KLEANER' prolongs the life expectancy of components.
- Convenient 360° (upside-down) spray valve for aerosols.
- High purity CO2 propellant, giving more active product content.
- Non-conductive and non-corrosive.
- Safe for all metal surfaces, most rubbers, plastics and coatings. Test on sensitive plastics, adhesive-mounted or stressed parts.
- Evaporates completely, leaving no residue.
- Fast cleaning action for removal of flux traces, light oils, finger prints and other contaminants 'off-line'.

### SHELF LIFE

24 Months from date of manufacture

### AVAILABLE PACKAGING

500 ml Aerosol Can



### APPLICATIONS

Ideal for applications where lower flash-point solvents may be used :

- Alarm and signal systems
- Circuit breakers
- Connectors
- Contacts
- Electromechanical assemblies
- Generators
- Laboratory and test equipments
- Motor controls
- Plugs and sockets
- Printed circuit boards
- Relays
- Sensors
- Switches
- Terminals

### DIRECTIONS FOR USE

Spray liberally on surface to be cleaned and allow to run off. Spray starting at the top of the surface and slowly working towards the bottom. Use extension tube for pinpoint cleaning.

To remove oxide and carbon deposits, use an abrasive and rinse off intermittently with 'MRO 1002 - Offline Contact Kleaner'. Re-lubricate with 'MRO 1001-Elektrician' if necessary. Highly flammable formulation. Do not spray on energised electrical equipment or circuits; de-activate before product application and extinguish all flames, pilot lights and heaters. During use, flammable vapours may accumulate, especially in closed equipment. Use with adequate ventilation and maintain ventilation until vapours are gone. Allow to dry thoroughly before reactivating systems.

### CAUTION

Contains flammable solvents. Do not spray near naked flame, hot surfaces or energized equipment.

### GENERAL

Use in well ventilated areas. Avoid continuous breathing of vapour and spray mist. In closed areas or areas with poor ventilation, use respiratory protection. For complete details on safety, short and long term exposure, refer to this product's safety data sheet (SDS).

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CFC Free Contact Cleaner

## Technical Properties

PARAMETER	VALUE
Type	Heavy duty cleaner & degreaser
Appearance	Liquid
Color	Clear
Odor	Mild petroleum
Specific Gravity @ 20°C	0.78
Flash Point (TCC) ASTM D 56	-17°C
Boiling Point (initial)	60°C
Solubility	Negligible in water
Vapor Density (air = 1)	>1
Percent Volatile	100 %
Evaporation Rate	very fast
Dielectric Strength ASTM D 877	22 kv
Kauri Butanol Value (KB) ASTM D 1130	31
Propellant	CO2

### HANDLING

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding PPE, safe use, and physical & health hazards. Safety data sheet is available from MRO INFRA or your local MRO INFRA Channel Partner.

### DISPOSAL

All used and unused product should be disposed of in accordance with state regulations.

### LIMITED WARRANTY

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended MRO INFRA product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty.