

## Product Data Sheet

### AC-90 CO2 PROPELLANT

#### GENERAL DESCRIPTION

- Multi-functional electrical & mechanical fluid.
- Cleans & lubricates.
- Displaces moisture & restores electrical properties.
- Penetrates rust & enables easy re-opening of rusted & jammed assemblies.
- Protects against condensation & electrical leakages.
- Prevents corrosion effectively inhibits rust.
- Active products contents of 97%.
- Safe for all metals, plastics, glass, paint, electrical varnishes, rubbers.....
- “Inverta spray” system for convenient 360° spraying.
- Ultra low surface tension & superior capillary action formulation. Unmatched surface “wet ability”, penetration & coverage.
- User safe non-toxic formulation. Silicone free. USDA accepted.
- Environmentally safe. Does not contain any CFC’S & ODC’S



#### SALIENT FEATURES

**SAFETY:** Non-flammable Co2 propellant significantly reduces fire risks. Enhances flash point. Can be sprayed directly on warm/ arcing/ chattering electrical systems as well as for maintaining equipment in high fire risk areas.

**VERSATILITY:** Can be used effectively both in electrical & mechanical applications. Truly mutli-use. Eliminates need to hold inventories of different products.

**ECONOMY:** Higher active content (97% actives v/s 75% actives generally found in petroleum gas based systems. Higher nett weight per unit aerosol can. Highest effective economy in its class.

### STANVAC CHEMICALS (I) LTD

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## ELECTRICAL PERFORMANCE

Contact resistance using fine silver contacts in a modified ASTM B182 apparatus and procedure measured at 10 amps and 12 volts DC before and after make and break cycling with a contact pressure of 100 gms and an AC current load of 23 amps and 114 volts.

	AC-90 Treated Contacts	Bare Contacts	Contact resistance of film
Before cycling	0.0083 OHM	0.0066	0.0017 OHM
After 5 cycles	0.0085 OHM	0.0067	0.0018 OHM
After 100 cycles	0.0086 OHM	0.0069	0.0017 OHM
After 1000 cycles	0.0085 OHM	0.0074	0.0011 OHM
After 2000 cycles	0.0098 OHM	0.0083	0.0015 OHM

Breakdown voltage ASTM D-877 AT 78° F ± 1° F 18,000 Volts per 0.100"

## EFFECT ON MATERIALS

Rubber: No visible effects on surfaces of various types of rubber sprayed with AC-90. Some swelling may occur after prolonged immersion in AC-90. Painted surfaces: Many types of paint have been exposed to AC-90 with no effect. Wax polishes and wax coatings will be removed by AC-90. Plastics: The following plastics were immersed in AC-90 for 168 hours without visible effects: Formica, acrylic sheet. Polyester, fiber glass. Laminate, Epoxy, fiber glass laminates, vinyl sheet, fabrics – the following fabrics have been exposed to AC-90 with no effect other than slight staining which can be removed with dry cleaning solvent: cotton, wool, dacron, nylon.

## SURFACE ATTRACTION

AC-90 has a very high attraction to metal surfaces. This is the key to AC-90 performance. AC-90 is able to get under surface moisture and quickly spread its active ingredients into microscopic surface irregularities.

## APPLICATION OF PAINT OVER AC-90

The adhesion of some types of paint coatings may be impaired when applied over AC-90. Solvent cleaning of the surface will prepare it for painting: Use Naptha or mineral spirits to clean surface.

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**High strength steels – for hydrogen embrittlement.**

AC-90 is classified safe according to the Lawrence hydrogen effusion test.

## CORROSION PROTECTION

Under actual conditions the duration of corrosion protection will vary with the type of materials protected and the conditions of exposure. In general the following table can be considered a guide for U.K. conditions:

1. Items coated with AC-90 in covered storage – 12 months.
2. Items coated with AC-90 in protected external storage – 6-12 months.
3. Items coated with AC-90 in unprotected external storage – 1-3 months.

Re-application of AC-90 will extend the corrosion protection.

## LUBRICATION

Dynamic coefficient of friction: Heat treated 4340 steel with normal blue oxide film against itself. Lubricated with AC-90.

Bearing pressure	Coefficient
100 PSI	0.112
1000 PSI	0.114
2000 PSI	0.129
3000 PSI	0.138
4000 PSI	0.145

## CHARACTERISTICS AND PROPERTIES

1. Appearance	Light amber, clear
2. Relative density	0.830 AT 20° C
3. Flash point (closed cup)	75° C.
4. Temperature resistance	150° C.
5. Freezing point	Below -30°C
6. Explosive properties	None
7. Oxidizing properties	None
8. Solubility in water	Insoluble

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9. Solubility in solvents	Aliphatic hydrocarbons
10. Can size	500 ml (97% actives 500ml/ 415 gms)
11. Propellant	Non flammable CO2
12. Spray action	360°
13. Dielectric strength	22 KV
14. Average film thickness	2 microns
15. Surface Tension	31 dynes per cm.

## APPLICATIONS

**ELECTRICAL:** Cleaning, protecting, lubricating & moisture proofing, make-break systems, contactors, relays, circuit breakers, transformers, switch gears, motors, generators, instruments, electronics, starters, communication assemblies....

**MECHANICAL:** Re-opening rusted & jammed assemblies; anti corrosion; light lubrication; cold cleaning & degreasing.

## USAGE PROCEDURE

- Spray in short bursts.
- Apply liberally & allow to penetrate/ displace moisture/ loosen deposits/ clean/ form residual protective film.
- Avoid spraying in or around naked flame
- Allow solvents to evaporate prior to energizing equipment. Can however be sprayed directly onto chattering & arcing systems to clean & restore normal functioning.

## IMPORTANT

1. Contains no Ozone Depleting Substances (O.D.S).
2. Warranted to conform to international ICC & DOT regulations.
3. Minimum 12 Months performance guarantee: - Warranted against any defect in material or workmanship for a period of 12 months from the date of supply.
4. Minimum 12 Months zero wastage guarantee: - 100% reliable aerosol spraying action & full contents spray-out guaranteed for a period of 12 months from the date of supply.

**“ USE THE BEST “**

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