

DuPont™ Vertrel®

cleaning agents



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CAIG Upgrades Electronic Cleaners and Lubricants with Vertrel®

Background

CAIG Laboratories, Poway, California, manufactures specialized chemicals for deoxidizing, cleaning, lubricating, and preserving electrical contacts. These products are used to maintain equipment ranging from flashlights and PCs to industrial controls and state-of-the-art medical imaging machines. Major electronic OEMs use CAIG's products to help assure good electrical contact performance in new equipment.

Originally, CAIG used fluorocarbons as solvents, carriers, and propellants. When these materials were phased out due to environmental restrictions, CAIG changed over to other materials such as cyclohexane, petroleum-based fluids, and isopropyl alcohol.

These replacements had shortcomings, including flammability and incompatibility with some materials used in electronic assemblies. Flammability is a major concern for customers who place a high priority on workplace safety. In line with the company's interest in safety and protecting the environment, CAIG looked to suppliers for other fluids.

DuPont suggested that CAIG test Vertrel® XMS cleaning agent and provided technical assistance in

developing product formulations. Vertrel® is an environmentally preferred hydrofluorocarbon designed for cleaning, rinsing, drying, and degreasing component parts and electronic assemblies, and other applications.

After testing a number of fluids recommended for electronics cleaning applications, CAIG engineers found that Vertrel® XMS best met their stringent requirements.

Wide-Ranging Benefits for Vertrel®

Crucial benefits for CAIG with Vertrel® include:

- Completely dissolves CAIG's ingredients for excellent performance as a carrier.
- Provides powerful solvent action for thorough cleaning with most soil found on contacts.

Figure 1. CAIG Laboratories formulates versatile contact cleaners with DuPont Vertrel® XMS cleaning agent for safety and excellent performance.



- Evaporates rapidly, leaving behind an even layer of CAIG's deoxidizers and other ingredients.
- Is chemically stable and offers broad compatibility with typical materials used in electronic assemblies to prevent damage during cleaning.

- Is nonflammable to satisfy customers' and shippers' safety requirements.
- In addition to pressurized containers, Vertrel® is suitable for use in pump-spray containers that are easily shipped worldwide with no restrictions.

Solid Results

CAIG now uses Vertrel® in formulations for DeoxIT™, ProGold™, R5 Power Booster™, PreservIT™ and other products for maintaining electrical contacts. Customer acceptance has been excellent, according to CAIG, with increased sales due to excellent fire safety and ready shipping without restrictions.



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