



No Flash No Flame



Non-flammable / non-conductive aerosol solvents For mission critical electrical cleaning challenges

3M brings you two aerosol products that meet tough military aviation specs: 3M™ Novec™ Contact Cleaner and new Contact Cleaner/Lubricant. Both are designed to help you make the workplace safer; comply with green initiatives; and cut mission-critical electrical cleaning challenges down to size.

Meets all MIL-PRF 29608A requirements including:

- Cleaning efficiency
- Plastics compatibility
- Non-Flammable
- Low toxicity
- Non ozone-depleting

Supports U.S. DOD initiatives to procure environmentally preferable products

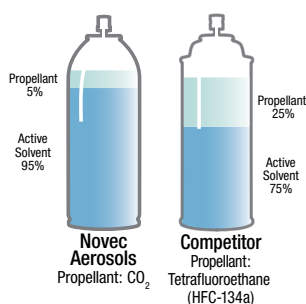
Tough on soils – easy on people, parts & the environment

Because they are non-corrosive, non-conductive, and penetrate deep into tight clearances, 3M™ Novec™ Contact Cleaner and Contact Cleaner/Lubricant are effective on many aviation cleaning applications, including avionics, electro-mechanical devices, instrumentation, electrical contacts, connectors and more. Just as important, they combine low environmental impact with outstanding safety characteristics.

With 3M™ Novec™ Aerosols, you get more cleans per can!

Every Novec aerosol product can contains over 95% active solvent – for more cleaning power and more cleans per can. Only 5% of the can contents is devoted to the propellant, which is ordinary CO₂.

Compare this to many competitive aerosols, which often contain 75% or less active solvent in conjunction with propellants such as tetrafluoroethane (HFC-134a) – a formulating technique these products require in order to be defined as “nonflammable” and/or to achieve VOC limitations.



Environmental, Health and Safety Information

| Properties | Novec Contact Cleaner | Novec Contact Cleaner/Lubricant | Previous MIL-PRF 29608 |
|---|-----------------------|---------------------------------|------------------------|
| Ozone Depletion Potential ¹ (ODP) | None | None | 0.10 |
| Composite Global Warming Potential ² (GWP) | 297 | 71 | 5000 |
| Flashpoint | None | None | None |
| Exposure Guideline (ppmV, 8 hr time weighted average) | 750 | 200 | 500 |

¹CFC-11 = 1.0, MIL-PRF 29608 based on ODP of HCFC-141b ²GWP-100 year integration time horizon, CO₂ = 1.0

Product Information

| Properties | Novec Contact Cleaner | Novec Contact Cleaner/Lubricant |
|-----------------------------|--|--|
| NSN (National Stock Number) | 6850-01-534-2919 | 6850-01-597-1998 |
| 3M ID Number | 98-0212-3293-3 | 98-0212-3598-5 |
| Typical Uses | Removes fluorinated oils and greases, light oils and silicones, dusts and particulates from sensitive systems and components. Fast drying with no residue. | Quickly cleans sensitive electrical/electronic equipment and leaves a thin protective silicone coating to help prevent excessive wear, abrasion and corrosion. |

Qualifications and Approvals

| Specification/Approval | Novec Contact Cleaner | Novec Contact Cleaner/Lubricant |
|--|--|---|
| MIL-PRF 29608A | Class C – Electrical Contact Cleaning Compounds | Class L – Electrical contact cleaning and lubricating compounds |
| Boeing D6-17487 | Exterior and general cleaning | |
| Gulfstream GAS115PC | Solvent compound – cleaner/degreaser | |
| AMCOM Maintenance Engineering Order #T5470 | Cleaning of Army Aircraft Components | |
| RoHS/WEEE Compliant | Yes | Yes |
| Meets CA VOC Limits | No | Yes – Silicone-based multi-purpose lubricant |
| Meets OTC VOC Limits | Yes – Electrical Cleaner | Yes – Silicone-based multi-purpose lubricant |
| ASTM G72 | Oxygen System Cleaning - Autogeneous ignition test | |
| NASA Handbook, 8060.1C Test 13 | Oxygen System Cleaning - Impact test | |

The 3M™ Novec™ Brand Family

The Novec brand is the hallmark for a variety of patented 3M products. Although each has its own unique formula and performance properties, all Novec products are designed in common to address the need for safe, effective, sustainable solutions in industry-specific applications. These include precision and electronics cleaning, heat transfer, fire protection, lubricant deposition and several specialty chemical applications.

3M™ Novec™ Engineered Fluids • 3M™ Novec™ Aerosol Cleaners • 3M™ Novec™ 1230 Fire Protection Fluid • 3M™ Novec™ Electronic Coatings • 3M™ Novec™ Electronic Surfactants

| United States | China | Europe | Japan | Korea | Singapore | Taiwan |
|--|----------------------------------|----------------------------------|--------------------------------------|------------------------------------|---------------------------------------|--------------------------------------|
| 3M Electronics Markets Materials Division 800 810 8513 | 3M China Ltd. 86 21 6275 3535 | 3M Belgium N.V. 32 3 250 7521 | Sumitomo 3M Limited 813 3709 8250 | 3M Korea Limited 82 2 3771 4114 | 3M Singapore Pte. Ltd. 65 454 8611 | 3M Taiwan Limited 886 2 2704 9011 |

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Issued: 7/11 8141HB
60-5002-0504-6

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