



Clean with Confidence



Formulated to address the needs of performance, safety and the environment

- Fast drying cleaners leave no residue
- Nonflammable
- Low toxicity
- Favorable environmental profile
- No HCFCs, HFCs, nPB or HAPs
- Over 95% active solvent, for more cleans per can

With nonflammable Novec Aerosol Cleaners, you get the best of both worlds

Fast, effective cleaning on a wide range of soils—plus outstanding safety and environmental properties

3M™ Novec™ Aerosol Cleaners are a family of nonflammable, high-performance cleaning solvents in convenient aerosol form. They combine effective cleaning with a wide margin of workplace safety and a favorable environmental profile, to help you meet today's electronics and precision cleaning challenges.

Novec aerosol products are non-corrosive, non-conductive, and penetrate deep into tight clearances, making them particularly

suitable for many critical cleaning applications, including electronics, electro-mechanical devices, instrumentation, electrical contacts, connectors and more.

In addition, Novec Contact Cleaner and Novec Contact Cleaner/Lubricant meet all MIL-PRF 29608A requirements for performance, compatibility, safety and environmental sustainability.



Selection Guide

	Novec Contact Cleaner	Novec Contact Cleaner Plus	New Novec Contact Cleaner/Lubricant	Novec Electronic Degreaser	Novec Flux Remover
Cleaning strength	Light Duty	Medium Duty	Medium Duty	Heavy Duty	Heavy Duty
Plastic compatibility	Plastic-safe	Plastic-safe	Plastic-safe	May damage ABS, PS, acrylic and polycarbonate	May damage ABS, PS, acrylic and polycarbonate
Lubricant	None	None	Silicone Based	None	None
Cleaning Performance					
Particulate	+++	+++	+++	+++	+++
Krytox®	+++	+++	+++	++	++
Light oils	+	++	++	+++	+++
Heavy oils and greases	-	-	-	+++	+++
Hydraulic fluid	+	++	++	+++	+++
Rosin-based flux	-	-	-	++	+++
No-clean flux	-	-	-	++	++
Lead-free flux	-	-	-	++	+++

Rating Key: +++ Excellent ++ Very Good + Moderate - Not Recommended

RoHS/WEEE compliant*	Yes	Yes	Yes	Yes	Yes
Meets CA VOC limits	No	Yes – Electrical Cleaner	Yes – Electrical Cleaner	Yes – Electronic Cleaner	Yes – Electronic Cleaner
Meets OTC VOC limits	Yes – Electrical Cleaner	Yes – Electrical Cleaner	Yes – Electrical Cleaner	Yes – Electronic Cleaner	Yes – Electronic Cleaner

NSF Registration	K2 137246	K2 141393	Not yet registered	K2 137245	K2 137247
NSN	6850-01-534-2919	6850-01-597-1949	6850-01-597-1998	6850-01-534-2927	6850-01-534-2943

*RoHS, which stands for the *Restriction of Hazardous Substances Directive*, bans the sale within the EU of new electronic and electrical equipment containing more than the agreed-upon levels of six hazardous substances: Lead; Mercury; Cadmium; Hexavalent Chromium; and two flame retardants used in plastics: Polybrominated Biphenyls and Polybrominated Diphenyl Ether. WEEE, or *Waste Electrical and Electronic Equipment Directive*, is designed to reduce toxic e-waste by setting collection, recycling and recovery targets for electrical equipment.

Important Note:

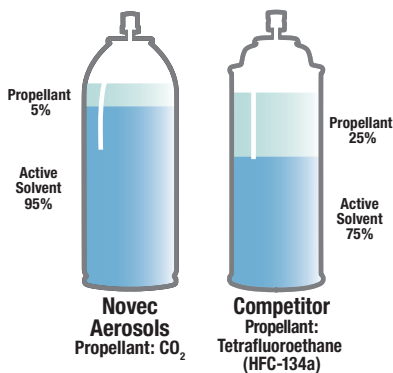
3M™ Novec™ Electronic Degreaser, Flux Remover, Contact Cleaner/Lubricant and Contact Cleaner Plus are formulated with 3M™ Novec™ 7200 Engineered Fluid – a solvent uniquely positioned to achieve compliance with California Air Resources Board (CARB) regulations.

These Novec aerosol products are optimized both for compliance with the CARB VOC limits and for high performance, because they do not resort to increased use of inert propellants (dilution) in order to achieve compliance.

With 3M™ Novec™ Aerosols, you get more of what you're paying for!

Every Novec aerosol product can contain 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 may contain only 75% 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.



No Flash No Flame

Novec aerosol solvents are nonflammable and non-conductive, for improved workplace safety and protection of critical equipment and systems.

Based on a proprietary 3M solvent technology, Novec Aerosol Cleaners are nonflammable, non-ozone depleting and contain no HCFCs, HFCs, nPB or HAPs. These fast-drying, noncorrosive cleaners are available in five unique formulations, for use in a wide range of maintenance, rework and repair operations.

Light Duty Cleaning

3M™ Novec™ Contact Cleaner

- Ideal for use on energized components
- Plastic compatible
- Used for removal of fluorinated oils and greases, light oils and silicones, dust and particulates from sensitive electrical and electronic equipment
- Meets MIL-PRF 29608A (Class C)



Medium Duty Cleaning

3M™ Novec™ Contact Cleaner Plus

- Features extra cleaning power to remove oils, greases and silicones, fluorinated oils and greases, dust and particulates from sensitive electrical and electronic equipment
- Plastic compatible



Medium Duty Cleaning/Lubrication

3M™ Novec™ Contact Cleaner/Lubricant

- Quickly penetrates and flushes away oils and greases from sensitive electrical and electronic equipment
- Meets MIL-PRF 29608A (Class L)
- Leaves a thin protective silicone coating



Heavy Duty Cleaning

3M™ Novec™ Electronic Degreaser

- An industrial-strength cleaner, ideal for cleaning heavy oils, greases and handling soils from electronic equipment



Heavy Duty Cleaning

3M™ Novec™ Flux Remover

- An industrial-strength cleaner, effective on a wide variety of solder fluxes – including rosin-based and many no-clean and lead-free fluxes



Resources

3M™ Novec™ Aerosol Cleaners are supported by global sales, technical and customer service resources, with fully-staffed technical service laboratories in the U.S., Europe, Japan, Latin America and Southeast Asia. Users benefit from 3M's broad technology base and continuing attention to product development, performance, safety and environmental issues.

For additional technical information on Novec Aerosol Cleaners in the United States, call 3M Customer Service, 800 810 8513.

For information on additional 3M fluids, coatings and other chemical products for the electronics industry, visit our web site at: www.3M.com/novec



The 3M™ Novec™ Brand Family The Novec brand is the hallmark for a variety of proprietary 3M compounds. Although each has its own unique formula and performance properties, all Novec products are designed 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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