



# Clean with Confidence

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

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

## With 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 advanced, high-performance cleaning solvents in convenient aerosol form. They combine effective cleaning performance with a wide margin of workplace safety and a favorable environmental profile, to help you meet today's electronics and precision cleaning challenges.

Based on a proprietary 3M solvent technology, Novec Aerosol Cleaners are non-flammable, non-ozone depleting and contain no HCFCs, HFCs, nPB or HAPs.

These fast-drying, non-flammable and noncorrosive cleaners are available in four unique formulations, for use in a wide range of maintenance, rework and repair operations.



### Selection Guide

	<b>New</b>			
	Novec Contact Cleaner	Novec Contact Cleaner Plus	Novec Electronic Degreaser	Novec Flux Remover
<b>Cleaning strength</b>	Light Duty	Medium Duty	Heavy Duty	Heavy Duty
<b>Plastic compatibility</b>	Plastic-safe	Plastic-safe	May damage ABS, PS, acrylic and polycarbonate	May damage ABS, PS, acrylic and polycarbonate
<b>Cleaning Performance</b>				
Particulate	+++	+++	+++	+++
Krytox®	+++	+++	++	++
Light oils	•	++	+++	+++
Heavy oils and greases	-	-	+++	+++
Hydraulic fluid	•	++	+++	+++
Rosin-based flux	-	-	++	+++
No-clean flux	-	-	++	++
Lead-free flux	-	-	++	+++
<b>Rating Key:</b> +++ Excellent ++ Very Good • Moderate - Not Recommended				
RoHS/WEEE compliant*	Yes	Yes	Yes	Yes
Meets CA VOC limits	No	Yes – Electrical Cleaner	Yes – Electronic Cleaner	Yes – Electronic Cleaner
Meets OTC VOC limits	Yes – Electrical Cleaner	Yes – Electrical Cleaner	Yes – Electronic Cleaner	Yes – Electronic Cleaner
NSF Registration	K2 137246	Registration pending	K2 137245	K2 137247
NSN	6850-01-534-2919	NA	6850-01-534-2927	6850-01-534-2943

#### Important Note:

3M™ Novec™ Electronic Degreaser, Flux Remover 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.

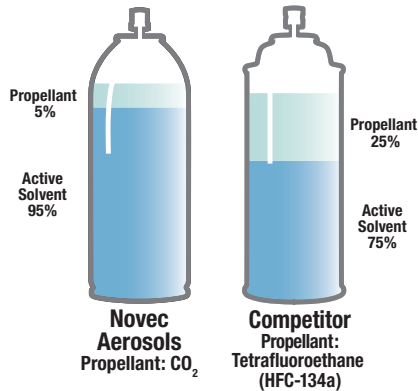
These Novec aerosol products are optimized both for compliance with the CARB VOC limits and for high performance, because they do not resort to increased use of inert propellants (dilution) in order to achieve compliance.

\*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.

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

Every Novec aerosol product 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 CO<sub>2</sub>.

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.



More  
Power  
for  
Hard-to-Clean  
Parts

### 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



### 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



### 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](http://www.3M.com/novec)



### The 3M™ Novec™ Brand Family

The Novec brand is the hallmark for a variety of patented 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

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