

# 3M™ Novec™ Aerosol Cleaners

## Product Cross Reference Guide

### Introduction

This Product Cross Reference Guide is intended to assist customers in identifying the 3M™ Novec™ Aerosol Cleaner product that most closely matches the performance characteristics of a variety of commercially-available industrial cleaners.

The products, catalog numbers and related information shown in this Product Cross Reference Guide were obtained from the latest available published information of the manufacturers of the products listed (as of the issue date of this guide).

**Note:** The 3M products listed below are offered as product replacement candidates for user consideration and evaluation. It is essential that before making any substitution the user evaluate any such products to determine whether they have the performance characteristics the user wants and are suitable for the user's intended application.



### Chemtronics® Products

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP
<b>Degreasers</b>	Electro-Wash® NX	ES1601	141b	134a	
	Electro-Wash® NX Improved	ES1611, ES2211	225ca, cb	134a	
	Electro-Wash® NR	ES1604	141b	134a	
	Electro-Wash® NR Improved	ES1614		134a	n-Propyl Bromide
	Electro-Wash® PN	ES1675	141b	134a	
	Electro-Wash® PN Improved	ES1678	225ca, cb	134a	
	Electro-Wash® CZ	ES7100		134a	
	Electro-Wash® VZ	ES6100		134a, 365, 43-10	
	Electro-Wash® NXO	ES1607		134a	
<b>Flux Removers</b>	FluxOff® No Clean Improved	ES1695	225ca, cb	134a	
	FluxOff® No Clean	ES1692	141b	134a	
	FluxOff® Heavy Duty	ES1631		134a	
	FluxOff® CZ	ES7200		134a	
	FluxOff® VZ	ES6200		134a, 365, 43-10	

### Novec Aerosol Replacement Candidate

#### Non-Ozone Depleting HFC, nPB & HAPs-Free

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Flux Remover

Novec Flux Remover

Novec Flux Remover

Novec Flux Remover

Novec Flux Remover



**Product Cross  
Reference Guide**

**Chemtronics® Products**

**Novec Aerosol  
Replacement  
Candidate**

	<b>Product Name</b>	<b>Product Number</b>	<b>Contains Class II Ozone Depleter</b>	<b>Contains HFC</b>	<b>nPB, HAP</b>	<b>Non-Ozone Depleting HFC, nPB &amp; HAPs-Free</b>
<b>Contact Cleaners</b>	Pow-R-Wash™ VZ	ES6300		134a, 365, 43-10		Novec Contact Cleaner
	Pow-R-Wash™ NX	ES1602	141b	134a		Novec Contact Cleaner
	Pow-R-Wash™ NX Improved	ES1612, ES2212	225ca, cb	134a		Novec Contact Cleaner
	Pow-R-Wash™ NR Improved	ES1613		134a	n-Propyl Bromide	Novec Contact Cleaner
	Pow-R-Wash™ PN	ES1674	141b	134a		Novec Contact Cleaner
	Pow-R-Wash™ PN Improved	ES1677	225ca, cb	134a		Novec Contact Cleaner
	Pow-R-Wash™ CZ	ES7300		134a		Novec Contact Cleaner
	Tuner ReNu™	ES1661	141b			Novec Contact Cleaner
	Electro-Wash® CZ Fiber Optic Cleaner	ES7100		134a		Novec Contact Cleaner

**LPS® Products**

**Novec Aerosol  
Replacement  
Candidate**

	<b>Product Name</b>	<b>Product Number</b>	<b>Contains Class II Ozone Depleter</b>	<b>Contains HFC</b>	<b>nPB, HAP</b>	<b>Non-Ozone Depleting HFC, nPB &amp; HAPs-Free</b>
<b>Contact Cleaners</b>	Electra-X Contact Cleaner	LPS 00816		134a	n-Propyl Bromide	Novec Contact Cleaner
	PSC Plastic Safe Cleaner	LPS 04620		134a		Novec Contact Cleaner
	NoFlash® Electro Contact Cleaner	LPS 04016		134a	n-Propyl Bromide	Novec Contact Cleaner
	Electro Contact Cleaner	LPS 00416		134a		Novec Contact Cleaner
	NoFlash® NU Electro Contact Cleaner	LPS 04015		134a	n-Propyl Bromide	Novec Contact Cleaner
	NoSpark Electrical Cleaner	LPS 04816		134a		Novec Contact Cleaner
	VOC Free Contact Cleaner	LPS 03416	225ca,cb	134a		Novec Contact Cleaner
<b>Degreasers</b>	Instant Super Degreaser	LPS 00719, LPS 00720			n-Propyl Bromide	Novec Electronic Degreaser

# Product Cross Reference Guide

## Micro Care Products

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP	Non-Ozone Depleting HFC, nPB & HAPs-Free
<b>Contact Cleaners</b>	Contact Cleaner C	MCC-CCC		134a, 365,		Novec Contact Cleaner
	Precision Contact Cleaner II	MCC-PC2	141b	134a		Novec Contact Cleaner
	Precision Contact Cleaner III	MCC-PC3		134a		Novec Contact Cleaner
	Precision Electronics Cleaner	MCC-PEC	141b	134a		Novec Contact Cleaner or Novec Electronic Degreaser
	Fiber Connector Cleaner	MCC-FCC2		134a, 365, 43-10		Novec Contact Cleaner
<b>Degreasers</b>	Heavy Duty Degreaser C	MCC-HDC		134a, 365, 43-10		Novec Electronic Degreaser
<b>Flux Removers</b>	Flux Remover C	MCC-FRC		134a, 365, 43-10		Novec Flux Remover
	SuprClean™ Defluxer	MCC-SPR		134a, 43-10		Novec Flux Remover

### Novec Aerosol Replacement Candidate

## Sprayon® Products

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP	Non-Ozone Depleting HFC, nPB & HAPs-Free
<b>Contact Cleaners</b>	Contact and Tuner Cleaner	S02202	141b			Novec Contact Cleaner
	Contact and Tuner Cleaner II	S02203000	141b			Novec Contact Cleaner
	Plastics Contact Cleaner	S02020		134a		Novec Contact Cleaner
<b>Degreasers</b>	Safety Cleaner & Degreaser II	S00748	141b			Novec Electronic Degreaser Novec Contact Cleaner
	Electrical Cleaner Lubricating Spray	S02001			Trichloro-ethylene	Novec Electronic Degreaser
	Electric Motor Degreaser & Safety Solvent	S00703			Perchloro-ethylene	Novec Electronic Degreaser
	Flash Free Safety Solvent Degreaser	S20848			Trichloro-ethylene	Novec Electronic Degreaser

### Novec Aerosol Replacement Candidate

# Product Cross Reference Guide

## Techspray™ Products

### Novec Aerosol Replacement Candidate

#### Non-Ozone Depleting HFC, nPB & HAPs-Free

#### Contact Cleaners

Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP
Envi-Ro-Tech™ Contact Cleaner	1674	141b		
Contact Cleaner II	1668	225ca,cb	134a	
HFE Contact Cleaner	1687		134a	
AK225 Contact Cleaner	3015	225ca,cb	134a	
Contact Cleaner G3®	1632		134a, 245fa	

Novec Contact Cleaner

Novec Contact Cleaner

Novec Contact Cleaner

Novec Contact Cleaner

Novec Contact Cleaner

#### Degreasers

Envi-Ro-Tech™ 1675 Cleaner Degreaser	1675	141b		
Envi-Ro-Tech™ 1677 Cleaner Degreaser	1677	141b		
Asahiklin AK225	1663	225ca,cb	134a	
Blue Shower® II	1667	225ca,cb	134a	
Degreaser NF	3070			Trichloroethylene
Blue Shower® G3	1630		134a, 245fa	
HFE Cleaner/ Degreaser	1685		134a	

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

#### Flux Removers

Envi-Ro-Tech™ 1678 Light Duty Defluxer	1678	141b		
Envi-Ro-Tech™ 1676 Defluxer	1676	141b		
Genesolv® 2004 Defluxer	1616	141b		
Flux Remover G3®	1631		134a, 245fa	
No Clean Flux Remover G3®	1634		134a, 245fa	
Kleen ATMS	1664	225ca,cb	134a	
Flux Remover AMS	1665	225ca,cb	134a	
No Clean Flux Remover	1660	225ca,cb	134a	
ATO Flux Remover (Europe Only)	1649		134a	
HFE Flux Remover	1686		134a	

Novec Flux Remover

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Novec Flux Remover

Novec Flux Remover

# Product Cross Reference Guide

## CRC Industries Products

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP	Non-Ozone Depleting HFC, nPB & HAPs-Free
<b>Contact Cleaners</b>	CO® Contact Cleaner	2016		134a, 43-10		Novec Contact Cleaner
	Industrial Contact Cleaner	3070		134a, 43-10		Novec Contact Cleaner
	Contact Cleaner 2000®	2140, 3150	141b			Novec Contact Cleaner
	NT™ Precision Cleaner	2205, 3205		43-10		Novec Contact Cleaner or Electronic Degreaser
<b>Degreasers</b>	Electronic Degreaser	2215, 3215			n-Propyl Bromide	Novec Electronic Degreaser
	Precision Plus® Contact Cleaner	2210, 3210 2211, 3211	225ca, cb	134a		Novec Contact Cleaner or Electronic Degreaser
	Electronic Component Cleaner	2200, 3200	141b			Novec Electronic Degreaser
	PF™ Precision Cleaner	2190, 3190	141b	134a, 43-10		Novec Contact Cleaner
	Super Degreaser™ Cleaner/Degreaser	3110			n-Propyl Bromide	Novec Electronic Degreaser
	Lectra Clean® Heavy Duty Degreaser	2018			Trichloro-ethylene	Novec Electronic Degreaser
	Electric Electrical Parts Cleaner	2180			Perchloro-ethylene	Novec Electronic Degreaser
	CE™ Precision Cleaner	14035		134a, 43-10		Novec Contact Cleaner
	Cable Clean® Degreaser	2064			n-Propyl Bromide	Novec Electronic Degreaser
	Cable Clean®	2069	Trichloro Ethane			Novec Electronic Degreaser
	Cable Clean® NT™ High Voltage Splice Cleaner	2040		43-10		Novec Contact Cleaner
	Quick Clean™ Safety Solvent & Degreaser	3180			Perchloro-ethylene	Novec Electronic Degreaser
	Heavy Duty Degreaser	3095			Trichloro-ethylene	Novec Electronic Degreaser
<b>Flux Remover</b>	Flux Remover	14500		134a, 43-10		Novec Flux Remover

### Novec Aerosol Replacement Candidate

# Product Cross Reference Guide

## Miller Stephenson Products

### Novec Aerosol Replacement Candidate

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP	Non-Ozone Depleting HFC, nPB & HAPs-Free
<b>Contact Cleaners</b>	Safezone Precision Cleaner	MS941/CO2	141b			Novec Contact Cleaner
	Safezone Contact Re-Nu®	MS-930/CO2	141b			Novec Contact Cleaner
	Precision Cleaner	MS-720		43-10, 134a		Novec Contact Cleaner
	Contact Re-Nu®	MS-730		134a		Novec Contact Cleaner
	Vertrel® XF Cleaner	MS-780		43-10, 134a		Novec Contact Cleaner
	Vertrel® XP Cleaner	WO419A		43-10, 134a		Novec Contact Cleaner
	Vertrel® XM Cleaner	MS-765		43-10, 134a		Novec Contact Cleaner
	Vertrel® XE Cleaner	MS-775		43-10, 134a		Novec Contact Cleaner
	Vertrel® X-P10	MS-760		43-10, 134a		Novec Contact Cleaner
	Contact Re Nu	CO721A		365, 43-10, 134a		Novec Contact Cleaner Novec Contact Cleaner
<b>Degreasers</b>	Vertrel® MCA Cleaner	MS-750		43-10, 134a		Novec Electronic Degreaser
	Vertrel® MCA Plus Hvy Duty Solvent and Flux Remover	MS-770		43-10, 134a		Novec Electronic Degreaser or Novec Flux Remover
	Vertrel® XSi Silicone Solvent	T0407A2		43-10, 134a		Novec Electronic Degreaser
	Precision Cleaning Solvent	CO720A		365, 43-10, 134a		Novec Electronic Degreaser
<b>Flux Removers</b>	Safezone Solvent and Flux Remover	MS-990/CO2	141b			Novec Flux Remover
	Heavy Duty Solvent and Flux Remover	MS725, MS727		134a		Novec Flux Remover
	Vertrel® SMT Heavy Duty Solvent & Flux Remover	MS-755		43-10, 134a		Novec Flux Remover
	Vertrel® XMS Plus Heavy Duty Solvent & Flux Remover	MS-795		43-10, 134a		Novec Flux Remover
	Cleaning Solvent & Flux Remover	CO718A		365, 43-10		Novec Flux Remover
	Heavy Duty Solvent and Flux Remover	CO716A		43-10		Novec Flux Remover

# Product Cross Reference Guide

## Sprayway® Products

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP
<b>Contact Cleaners</b>	Elect Grade Precision Cleaner	800	141b	134a	
	High Purity Contact Cleaner	803	141b		
	Film Cleaner	205			Trichloro-ethylene
<b>Degreasers</b>	C-60 Solvent Cleaner and Degreaser	63			Trichloro-ethylene
	Elect Grade Solvent Cleaner/Degreaser	64			Trichloro-ethylene
	Industrial Clean up Dry Cleaner	732			Trichloro-ethylene, Perchloro-ethylene

### Novec Aerosol Replacement Candidate

#### Non-Ozone Depleting HFC, nPB & HAPs-Free

Novec Contact Cleaner  
Novec Contact Cleaner  
Novec Contact Cleaner

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

## Rite-Off/Green Tree Chemical Technologies, Inc.

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP
<b>Contact Cleaners</b>	Contact Clean	6470			n-Propyl Bromide
	Versa Clean HFE	51292		134a	
	Rapid Dry Contact Cleaner	6440			Trichloro-ethylene
<b>Degreasers</b>	Multikleen	6540			n-Propyl Bromide
	Versa-Clean	51287	141b	134a	
	BromoClean	51290			n-Propyl Bromide
	Safety Solvent	6310			Trichloro-ethylene
	Electro-Clean	6490			n-Propyl-Bromide
<b>Flux Removers</b>	Flux Clean	52133			Trichloro-ethylene
	Flux Clean NR	6560			n-Propyl Bromide
	Heavy Duty Defluxer	6530			n-Propyl Bromide

### Novec Aerosol Replacement Candidate

#### Non-Ozone Depleting HFC, nPB & HAPs-Free

Novec Contact Cleaner  
Novec Contact Cleaner  
Novec Contact Cleaner

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Electronic Degreaser

Novec Flux Remover

Novec Flux Remover

Novec Flux Remover

# Product Cross Reference Guide

## MG Chemicals Products

### Novec Aerosol Replacement Candidate

	Product Name	Product Number	Contains Class II Ozone Depleter	Contains HFC	Contains nPB, HAP	Non-Ozone Depleting HFC, nPB & HAPs-Free
<b>Contact Cleaner</b>	HFE Plastic Safe	411		134a		Novec Contact Cleaner
<b>Degreasers</b>	Super Cleaner Degreaser	412		134a		Novec Electronic Degreaser
	nPB Heavy Duty Cleaner	4112			n-Propyl Bromide	Novec Electronic Degreaser
	HFE Super Cleaner Degreaser	4120		365, 134a		Novec Electronic Degreaser
<b>Flux Remover</b>	HFE Super Flux Remover	4141		365, 134a		Novec Flux Remover

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

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### Electronics

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