Sustainable Innovation to Address Climate Change
Long before the concept of sustainability ever had a name, 3M served as a leader among its peers for reducing its impact on the environment while conserving resources. 3M learned a few things over the last 40 years and now offers this catalog of products developed from 3M innovation to help customers achieve sustainability goals -- whether they are saving energy, reducing greenhouse gas emissions, or purchasing products that are made with fewer solvents, 3M has a solution.

Sustainability is the responsibility of everyone. Together with customers, 3M hopes to continue to meet today’s needs while allowing the next generation to meet its needs.

Sincerely,

George W. Buckley,
Chairman, President and CEO
Our Corporate Values

3M’s sustainability policies and practices are directly linked to our fundamental corporate values:

• Act with uncompromising honesty and integrity in everything we do.
• Satisfy our customers with innovative technology and superior quality, value and service.
• Provide our investors an attractive return through sustainable, global growth.
• Respect our social and physical environment around the world.
• Value and develop our employees’ diverse talents, initiative and leadership.
• Earn the trust and admiration of all those associated with 3M worldwide.

Today, we’re building on more than 70 years of practices that support economic, social, and environmental sustainability. Our vision is simple: we want to help meet the needs of society today while respecting the ability of future generations to meet their needs.

Our Sustainability Principles and Objectives

We are guided by three strategic principles that make sustainability implicit.

Economic Success
We build lasting customer relationships by developing differentiated, practical, and ingenious solutions to their sustainability challenges.

Environmental Stewardship
We provide practical solutions and products to address our environmental challenges for ourselves and our customers.

Social Responsibility
We engage key stakeholders in dialogue and take action to improve our sustainability performance.

With these strategic principles as a framework, we’re vigorously pursuing our key sustainability objectives. Among them:

• Managing our environmental footprint
• Developing solutions that address environmental and social challenges for our customers and society
• Assuring our products are safe for their intended use through their entire lifecycle
• Assuring the appropriate management of any 3M health and safety issues that may touch customers, neighbors, and the public
• Maintaining a safe and healthy workplace
• Satisfying our customers with superior quality and value
• Providing a supportive, flexible work environment
• Supporting local needs and education in communities where 3M employees live and work
• Conducting our business with uncompromising honesty and integrity
• Engaging all employees around sustainability
• Providing an attractive return for investors

Sustainability at 3M grew from a commitment to both innovation and ethical conduct. By continuing to increase our sustainability performance at the economic, social, and environmental levels, we are building a strong vibrant company today while leaving a strong legacy for which future generations can build upon.

Innovation—the art and science of applying creativity to develop practical and novel solutions—has been our hallmark for more than a century. It’s more than a way of developing products. Innovation is part of our DNA.

We recognized early that doing business in new, smarter ways would not only create a more viable company—it could also enable us to meet our social responsibilities and reduce our impact on the environment. Sustainability is just a natural extension of our values.
2015 Sustainability Goals

Setting goals to drive progress towards sustainability is nothing new at 3M.

3M has been setting environmental goals since 1990. These goals have helped 3M dramatically reduce its environmental footprint. In 2010, 3M developed its first set of Sustainability Goals. These Goals go beyond the environment and now include social responsibility and economic objectives. Continuing to improve our environmental performance remains a key component of our 2015 Sustainability Goals, but we’re going to do more.

Environmental Stewardship

- Reduce Volatile Air Emissions 15% by 2015 from 2010 base year, indexed to net sales
- Reduce Waste 10% by 2015 from 2010 base year indexed to net sales
- Improve Energy Efficiency 25% by 2015 from 2005 base year, indexed to net sales
- Reduce Greenhouse Gas Emissions 5% by 2011 from 2006 base year, indexed to net sales (Goal was set in 2007)
- Develop Water Conservation Plans when 3M is located in water scarce and stressed areas

Social Responsibility

- Develop Community Stakeholder Engagement Plans at 3M Facilities
- Promote a Road to Environmental, Health, and Safety (EHS) Excellence at New 3M Sites

Economic Success

- Review at least 80% of Supplier Spend in the following countries: China, India, Korea, Malaysia, Taiwan, Thailand, Brazil, Mexico, Russia, and Turkey to Drive Conformance with 3M EHS, Transportation & Labor/ Human Relations Standard by 2015
- Enhance the Environmental Sustainability Attributes of New Products

Solutions for Life

Sometimes the best way for us to make a difference is to make a great product.

Life cycle management is a formal part of 3M’s worldwide product introduction process. This means we ask important questions at the very beginning of the development of a new product, such as: How can we reduce the product’s impact on the environment? How will we distribute it? How will it ultimately be disposed of?

Since 2001, we’ve had a Life Cycle Management Policy in place that calls for all business units to conduct life cycle reviews for all new products and all existing products. With hundreds of new products introduced each year, we have a continuous flow of opportunities to improve the environmental, health, and safety effects of the things we make.

We make a measurable difference by minimizing our effects on the environment. And we increase that difference dramatically by making thousands of products that help consumers and businesses minimize their impact. We offer diverse solutions that help our customers in a broad range of industries address their environmental and energy challenges.

For more of our story, visit www.mmm.com/sustainability
Staying in Touch

We have long recognized that dialogue and collaboration are crucial to innovation.

We’re a diverse company, producing thousands of products through operations in more than 65 countries. We’ve long recognized that dialogue and collaboration with our neighbors, shareholders, employees, and partners is crucial. Locally and at the global level, we’re reaching out and staying in touch.

Collaboration is an important part of our sustainability strategy. We team with a variety of organizations to gain a diverse set of viewpoints on sustainability, a better understanding of the positions of our stakeholders, and a mechanism to learn from the successes and failures of our peers.

Sharing time, talent, products & funds with 3M Communities

Giving of our time, money, and talent is an important part of our sustainability strategy. Our philanthropy includes cash gifts from 3M and the 3M Foundation, donated products, and volunteerism by employees and retired employees. Subsidiaries outside the U.S. administer their giving programs to reflect the local culture and needs. In 2010, we contributed nearly $50 million in cash and products to nonprofit and education organizations serving our communities. Our giving targets education, health and human services, arts and culture, and the environment.

Many thousands of 3M employees and retirees around the world serve their communities through 25 3M-affiliated programs and other nonprofit groups. In 2010, more than 3,000 3M volunteers participated in 25 3M-affiliated programs in St. Paul, Minnesota, alone. Volunteers tutored students; mentored students to help them prepare for post-secondary education; or worked side-by-side with students to help them landscape and beautify their schools.
Contents

This catalog was developed for businesses and consumers interested in products that can help them reduce energy use and greenhouse gas emissions.

Automotive & Aircraft ......................................................................................................................... 2

Building Management .......................................................................................................................... 7
  Air Filtration ........................................................................................................................................ 7
  Roof Coatings ...................................................................................................................................... 8
  Water Filtration .................................................................................................................................... 8
  Window Films ...................................................................................................................................... 9

Construction & Home Improvement ...................................................................................................... 13
  Air Filtration ........................................................................................................................................ 13

Health Care ......................................................................................................................................... 14

Home & Office ...................................................................................................................................... 15
  Air Cleaning ........................................................................................................................................ 15
  Desk Solutions ................................................................................................................................... 15
  Presentation Products ........................................................................................................................... 16

Industrial & Energy Solutions .............................................................................................................. 18
  Architectural Finishes ........................................................................................................................... 18
  Engineered Fluids ................................................................................................................................. 19
  Fire Protection ..................................................................................................................................... 24
  Industrial & Energy Solutions .............................................................................................................. 25
  Packaging Products .............................................................................................................................. 26
  Renewable Energy Solutions ............................................................................................................. 26
  Roofing Products ................................................................................................................................. 27

Large Format Graphics ....................................................................................................................... 28

Lighting Solutions ............................................................................................................................... 29

Transportation Solutions ..................................................................................................................... 31
3M™ Color Stable Automotive Window Films

Don't settle for anything less! 3M™ Color Stable's appearance rivals tinted factory glass, never turns purple, and provides high heat rejection with no signal interference! 3M's revolutionary nano-carbon polyester provides an incredible look, amazing color stability, and is non-metallized to ensure no signal interference. While most other window film companies buy their polyester from someone else, 3M makes its own polyester. During this process, 3M patented a technology for producing its own nano-carbon polyester. This revolutionary and unique process, allows for maximum heat rejection without a metallized film, which can interfere with radio and satellite signals. It also gives our films a stylish look with outstanding color stability. In fact, it's so advanced that in time-based tests, 3M™ Color Stable films never turned purple while conventional dyed films rapidly changed to a purple color.

Toll Free Number: 1-866-499-8857
Website: www.3m.com/windowfilm

Environmental/ Energy Advantage
These darker shaded films are designed to reject solar heat that is produced from visible light. Color Stable rejects up to 57% of the heat coming through your windows. Color Stable films also provide significant glare relief, allowing only 5% to 50% of the light into your car.

3M™ Complete Fuel System Cleaner

Tank additive. Designed to clean intake valves and combustion chambers and remove fuel injector deposits during the time it takes to consume one tank of gas. Protects against carbon buildup and engine knock. Helps eliminate stalling, hesitation and poor performance due to dirty fuel system.

Website: www.3MCarCare.com

Environmental/ Energy Advantage

3M™ Crystalline Automotive Window Film

If you are looking for the ultimate in high technology, superior clarity and performance with a premium look – then 3M™ Crystalline Automotive Window Film is for you. 3M™ Crystalline Automotive Window Films feature a proprietary, multilayer optical film technology that combines over 200 layers in a film that is thinner than a Post-it® Note. This unique technology is the reason a clear film can reject more heat than darker films, without changing your car's appearance.

Toll Free Number: 1-866-499-8857
Website: www.3m.com/windowfilm

Environmental/ Energy Advantage
Solar heat comes from two primary sources, the visible light you can see and the infrared light you can feel. Crystalline window films reject up to 97% of the sun's heat producing infrared light and block up to 60% of the heat coming through your windows. These industry-leading, spectrally-selective films are designed to keep you cool, comfortable and protected.
3M™ Do-It-Yourself Fuel System Tune-Up Kit

A three part kit designed for the 'medium' to 'heavy' do-it-yourselfer to perform a professional fuel system cleaning at home. Contains 3M™ DIY Intake System Cleaner (PN08954), 3M™ Throttle Plate and Carb Cleaner (PN08185) and 3M™ Complete Fuel System Cleaner (PN08813).

Website: www.3MCarCare.com

Environmental/ Energy Advantage

3M™ FX HP Automotive Window Films

FX HP gives a hot look on the outside, but is cool and private on the inside. A hybrid of two film technologies, FX HP combines a dyed film with a metalized film to provide additional heat rejection and improved comfort. FX HP is an economical window film that provides excellent heat rejection without sacrificing quality. Because FX HP incorporates a metalized film, it may have slight interference with wireless signals.

Toll Free Number: 1-866-499-8857
Website: www.3m.com/windowfilm

Environmental/ Energy Advantage
These darker shaded films are designed to reject solar heat that is produced from visible light. FX HP rejects up to 55% of the heat coming through your windows. FX HP films also provide significant glare relief, allowing only 5% to 50% of the light into your car.

3M™ FX ST Automotive Window Films

FX HP gives a hot look on the outside, but is cool and private on the inside. A hybrid of two film technologies, FX HP combines a dyed film with a metalized film to provide additional heat rejection and improved comfort. FX HP is an economical window film that provides excellent heat rejection without sacrificing quality. Because FX HP incorporates a metalized film, it may have slight interference with wireless signals.

Toll Free Number: 1-866-499-8857
Website: www.3m.com/windowfilm

Environmental/ Energy Advantage
These darker shaded films are designed to reject solar heat that is produced from visible light. FX HP rejects up to 55% of the heat coming through your windows. FX HP films also provide significant glare relief, allowing only 5% to 50% of the light into your car.
3M™ Injector Cleaner
Tank additive. Clean fuel injectors and removes deposits during the time it takes to consume one tank of gas. Restores power and fuel economy. Helps eliminate stalling, hesitation and poor performance due to dirty fuel injectors.

Website: www.3MCarCare.com

Environmental/ Energy Advantage

3M™ Intake System Aerosol Adaptor Kit
An adaptor kit equipped with an assembled tube attached to a brass quick disconnect fitting (08927) for attachment to the 3M™ Intake System Cleaner 08958. The kit also includes a can hanger (08837) and a complete set of instructions for use.

Website: www.3MCarCare.com

Environmental/ Energy Advantage

3M™ Intake System Cleaner Kit
A complete fuel system cleaner. Contains 3M™ Intake System Cleaner Aerosol 08958, 3M™ Complete Fuel System Cleaner 08813, and 3M™ Throttle Plate Cleaner 08182. This is the most complete package of intake system cleaning chemicals available. This 3-pack is designed with the professional user in mind, providing the cleaning agents to go through the upper intake and in the tank, while including an aerosol product to clean the throttle plate and air intake on fuel-injected gasoline engines. The 3M™ Intake System Cleaner 08958 is a unique and proprietary blend of the most effective cleaning chemicals available. This product is easily and effectively applied with the use of the 3M™ Intake System Aerosol Adaptor Kit 08960.

Website: www.3MCarCare.com

Environmental/ Energy Advantage
3M™ Max Strength Fuel System Cleaner

A concentrated tank additive that cleans fuel injectors, intake valves, combustion chambers in one tank. For gasoline engines only.

Website: www.3M.com/automotive

Environmental/ Energy Advantage


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3M™ Universal Fuel Injection Cleaner

Fuel injector cleaner that can help restore injector efficiency, decrease exhaust emissions and improve fuel atomization. [Must be used with 3M™ Universal Fuel Injector Cleaner Kit, 08836.] 3M™ Universal Fuel Injector Cleaner (100 psi can) is a proprietary blend of high octane fuel and solvents, designed to run the engine during the cleaning procedure while cleaning the injectors as the cleaner passes through them. Developed in the 1980's as a concentrated cleaner formulated to clean fuel injectors on gasoline engines. It is a disposable pressurized can that requires specialized hardware to administer. It is designed to be attached directly to the engine fuel system with appropriate 3M™ adapters and hardware. When connected properly, the engine runs on the contents of the can. For best results, use this product together with 3M™ Fuel Injector Cleaner Tank Additive 08812 and an aerosol can of 3M™ Throttle Plate and Intake Cleaner 08866. Application instructions are vehicle specific. You should refer to the 3M™ Fuel System Cleaning Application Guide, CD-ROM, 08816 for detailed directions. You may also call 3M at 1-877-666-2277 (8:00 am to 4:30 pm CST).

Website: www.3MCarCare.com

Environmental/ Energy Advantage


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3M™ Universal Fuel Injector Cleaner Kit


Website: www.3MCarCare.com

Environmental/ Energy Advantage

Automotive & Aircraft

3M™ Universal Fuel System Cleaner 3-Pack

This is the most complete package of fuel system cleaning chemicals available. Contains one each of the following: 3M™ Universal Fuel System Cleaner 08955, 3M™ Fuel System Cleaner Tank Additive 08813, 3M™ Throttle Plate Cleaner 08182. This 3-pack is designed with the professional user in mind, providing the cleaning agents to go through-the-rail and in the tank, while including an aerosol product to clean the throttle plate and air intake on fuel-injected gasoline engines. 3M hardware is required to administer the through-the-rail "purge" product, 08955. Application instructions are vehicle specific. You should refer to the 3M™ Fuel System Cleaning Application Guide available under the Product Selector category in www.3m.com/automotive.

Website: www.3MCarCare.com

Environmental/ Energy Advantage

Air Filtration

Filtrete™ Commercial HVAC Filter MERV A11 Mini-Pleat with Gasket

The innovative, open filtration media structure and a precise pleat structure, combined with a low pressure drop of the Filtrete™ Commercial HVAC Filter MERV A11 Mini-Pleat with Gasket, can lead to reduced electrical energy consumption.

**Toll Free Number:** 1-800-648-3550  
**Website:** www.filtrete.com/commercialbuilding  

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC/S/CS/CI v3 IEQ Credit 3.1: Construction Indoor Air Quality Management Plan; LEED® EB v3 IEQ Credit 1.5: Indoor Air Quality Best Management Practices.

**Environmental/ Energy Advantage**  
Filtrete™ Commercial HVAC Filters from 3M combine effective filtration performance with low airflow resistance and long filter life.

Filtrete™ Commercial HVAC Filter MERV A12 Mini-Pleat with Gasket

The Filtrete™ Commercial HVAC Filter MERV A12 is a mini-pleat filter, using 3M media technology. Due to the innovative filtration media, the Filtrete™ Commercial HVAC Filter MERV A12 Mini-Pleat with Gasket, provides robust filtration efficiency in the most extreme commercial office building HVAC environments.

**Toll Free Number:** 1-800-648-3550  
**Website:** www.filtrete.com/commercialbuilding  

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC/S/CS/CI v3 IEQ Credit 3.1: Construction Indoor Air Quality Management Plan; LEED® EB v3 IEQ Credit 1.5: Indoor Air Quality Best Management Practices.

**Environmental/ Energy Advantage**  
Filtrete™ Commercial HVAC Filters from 3M combine effective filtration performance with low airflow resistance and long filter life.

Filtrete™ Commercial HVAC Filter MERV A13 Mini-Pleat with Gasket

Using 3M™ technology, the Filtrete™ Commercial HVAC Filter MERV A13 Mini-Pleat with Gasket offers an industry leading combination of high in-use efficiency, low pressure drop and a long filter life - all in a compact filter package. The precise balance of mechanical and electret elements is validated by the rigorous industry filter conditioning standard - ASHRAE 52.2 Appendix J.

**Toll Free Number:** 1-800-648-3550  
**Website:** www.filtrete.com/commercialbuilding  

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC/S/CS/CI v3 IEQ Credit 5: Indoor Chemical and Pollutant Source Control; to LEED® EB v3 IEQ Credit 1.4: Indoor Air Quality Best Management Practices.

**Environmental/ Energy Advantage**  
Filtrete™ Commercial HVAC Filters from 3M combine effective filtration performance with low airflow resistance and long filter life.
Building Management

Filtrete™ Commercial HVAC Filter MERV A8 Mini-Pleat with Gasket

The Filtrete™ Commercial HVAC Filter MERV A8 Mini-Pleat with Gasket features 100% synthetic media that is moisture and humidity resistant. It is an excellent choice as either a pre-filter or as a primary filter.

Toll Free Number: 1-800-648-3550  
Website: www.filtrete.com/commercialbuilding  
LEED® Claim:  
Use of this product helps contribute to LEED® NC/S/CS/CI v3 IEQ Credit 3.1: Construction Indoor Air Quality Management Plan; LEED® EB v3 IEQ Credit 1.5: Indoor Air Quality Best Management Practices.

Environmental/ Energy Advantage
Filtrete™ Commercial HVAC Filters from 3M combine effective filtration performance with low airflow resistance and long filter life.

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Roof Coatings

Scotchkote™ Liquid Roofing

Scotchkote™ Liquid Roofing solutions are highly reflective, liquid applied waterproofing membranes for roof maintenance, new construction and re-roofing projects. When applied to aged roofs, the reinforced coating solution eliminates the need to remove and landfill debris created during normal re-roofing by extending the life of functioning materials in place.

Toll Free Number: 888-262-1638  
Website: www.scotchkoteroofing.com  
LEED® Claim:  
Use of this product helps contribute to LEED® NC v2.2- SS Credit 7.2: Heat Island Effect; Roof; and LEED® EB v2.0- SS Credit 6.2 Heat Island Reduction: Roof.

Environmental/ Energy Advantage
Reflective white finish coat reduces building cooling requirements and urban heat island effect.

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Water Filtration

3M™ Water Filtration BREW series

3M™ Water Filtration BREW series add a scale inhibitor to the water to help control the precipitation of the carbonates as hard lime scale.

Toll Free Number: 1-888-218-CUNO  
Website: www.cunofoodservice.com  
LEED® Claim:  
Use of this product helps comply with LEED® NC v2.2, EB v2.0-EA Prerequisite 2: Minimum Energy Performance; and helps contribute to LEED® NC v2.2- EA Credit 1: Optimize Energy Performance.

Environmental/ Energy Advantage
Energy savings through control of lime-scale formation on coffee-brewer heating coils and boilers. 3,500 gallon capacity for chlorine taste and odor reduction; scale reduction; sediment reduction, cyst reduction (BREW110-MS), and bacteria reduction.
3M™ Water Filtration ICE series

3M™ Water Filtration ICE series add a scale inhibitor to the water to help control the precipitation of the carbonates as hard lime scale.

**Toll Free Number:** 1-888-218-CUNO  
**Website:** www.cunofoodservice.com

**LEED® Claim:**  
Use of this product helps comply with LEED® NC v2.2, EB v2.0-EA Prerequisite 2: Minimum Energy Performance; and helps contribute to LEED® NC v2.2- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage:**  
Energy savings through control of lime-scale formation on ice machine evaporator plates.  
25,000 gallon capacity for chlorine taste and odor reduction; scale reduction; sediment reduction, cyst reduction (ICE140-S), and bacteria reduction.

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Window Films

3M™ Safety & Security Window Film Ultra Neutral S35

Exceptional performance. Up to 42 micro-layers make 3M™ Ultra Series films totally unique as well as tough and tear-resistant. This film delivers superior performance over standard polyester films in blast and impact events, yet still maintains a high level of optical clarity. Ultra Series films can also be combined with many 3M™ Sun Control Films to give you the best of both worlds.

**Toll Free Number:** 1-866-499-8857  
**Website:** www.3m.com/windowfilm

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage:**  
Helps increase personal safety from flying glass and deter smash and grab burglaries. Helps mitigate damage from windstorms, blasts and earthquakes. 3M™ Window Films are designed to reduce the effects of solar heat and visible light on your furnishings and will block up to 99% of the sun's harmful ultraviolet rays, which are the single largest cause of fading. Additional benefits include reduced glare and improved comfort. 3M™ Ultra Safety & Security Window Film Ultra Neutral S35 rejects up to 56% of the sun's heat that comes through the window.

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3M™ Safety & Security Window Film Ultra Neutral S50

Exceptional performance. Up to 42 micro-layers make 3M™ Ultra Series films totally unique as well as tough and tear-resistant. This film delivers superior performance over standard polyester films in blast and impact events, yet still maintains a high level of optical clarity. Ultra Series films can also be combined with many 3M™ Sun Control Films to give you the best of both worlds.

**Toll Free Number:** 1-866-499-8857  
**Website:** www.3m.com/windowfilm

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage:**  
Helps increase personal safety from flying glass and deter smash and grab burglaries. Helps mitigate damage from windstorms, blasts and earthquakes. 3M™ Window Films are designed to reduce the effects of solar heat and visible light on your furnishings and will block up to 99% of the sun's harmful ultraviolet rays, which are the single largest cause of fading. Additional benefits include reduced glare and improved comfort. 3M™ Ultra Safety & Security Window Film Ultra Neutral S50 rejects up to 43% of the sun's heat that comes through the window.
### 3M™ Safety & Security Window Film Ultra NV S25

Exceptional performance. Up to 42 micro-layers make 3M™ Ultra Series films totally unique as well as tough and tear-resistant. This film delivers superior performance over standard polyester films in blast and impact events, yet still maintains a high level of optical clarity. Ultra Series films can also be combined with many 3M™ Sun Control Films to give you the best of both worlds.

**Toll Free Number:** 1-866-499-8857  
**Website:** www.3m.com/windowfilm  
**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage:**  
Helps increase personal safety from flying glass and deters smash and grab burglaries. Helps mitigate damage from windstorms, blasts and earthquakes. 3M™ Window Films are designed to reduce the effects of solar heat and visible light on your furnishings and will block up to 99% of the sun's harmful ultraviolet rays, which are the single largest cause of fading. Additional benefits include reduced glare and improved comfort. 3M™ Ultra Night Vision S25 Window Film rejects up to 64% of the sun's heat that comes through the window.

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### 3M™ Safety & Security Window Film Ultra Silver S20

Exceptional performance. Up to 42 micro-layers make 3M™ Ultra Series films totally unique as well as tough and tear-resistant. This film delivers superior performance over standard polyester films in blast and impact events, yet still maintains a high level of optical clarity. Ultra Series films can also be combined with many 3M™ Sun Control Films to give you the best of both worlds.

**Toll Free Number:** 1-866-499-8857  
**Website:** www.3m.com/windowfilm  
**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage:**  
Helps increase personal safety from flying glass and deters smash and grab burglaries. Helps mitigate damage from windstorms, blasts and earthquakes. 3M™ Window Films are designed to reduce the effects of solar heat and visible light on your furnishings and will block up to 99% of the sun's harmful ultraviolet rays, which are the single largest cause of fading. Additional benefits include reduced glare and improved comfort. 3M™ Ultra Safety & Security Window Film S20SIAR400 rejects up to 77% of the sun's heat that comes through the window.

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### 3M™ Safety and Security Window Film Ultra Prestige Series

Super cool protection. The first of its kind, 3M™ Ultra Prestige Film is a non-metalized film that offers all the benefits of sun control with safety features built in. It blocks heat and reduces hot spots and damaging UV rays, while also helping to hold the glass together in the event of breakage.

**Toll Free Number:** 1-866-499-8857  
**Website:** www.3m.com/windowfilm  
**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage:**  
3M™ Safety and Security Window Film Ultra Prestige Series is designed to reduce the effects of solar heat and visible light on your furnishings and will block up to 99.9% of the sun's harmful ultraviolet rays, which are the single largest cause of fading. Additional benefits include an elegant appearance, reduced glare and improved comfort. 3M™ Sun Control Window Film Prestige Series-Ultra rejects up to 59% of the sun's heat that comes through the window. By reducing heat, you can help save on your energy costs. The Skin Cancer Foundation recommends many 3M™ Window Film products as effective UV protectants.
3M™ Sun Control Window Film Amber 35 Low E

High heat reduction. These tinted, reflective films combine high heat reduction with a quick return on investment.

Toll Free Number: 1-866-499-8857
Website: www.3m.com/windowfilm

LEED® Claim:
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

Environmental/ Energy Advantage
Our films block up to 99% of the sun's damaging UV rays which are the single largest cause of fading and sun damage. Additional benefits include an elegant appearance, reduced glare and improved comfort. 3M™ Amber Low E Sun Control Window Film rejects up to 75% of the sun's heat that comes through the window. By reducing heat, you can help save on your energy costs. The Skin Cancer Foundation recommends many 3M™ Window Film products as effective UV protectants.

3M™ Sun Control Window Film Night Vision Series

Better sight at night. Night Vision Series window films help block the sun's damaging UV rays and control heat and glare. You can let natural light into your space by day, and, thanks to a low interior reflectivity, still enjoy the view out at night. Medium to dark versions of this film also provide privacy so a passerby won't be able to see into your building during the day.

Toll Free Number: 1-866-499-8857
Website: www.3m.com/windowfilm

LEED® Claim:
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

Environmental/ Energy Advantage
Our films block up to 99% of the sun's damaging UV rays which are the single largest cause of fading and sun damage. Additional benefits include an elegant appearance, reduced glare and improved comfort. 3M™ Night Vision Window Film rejects up to 73% of the sun's heat that comes through the window. By reducing heat, you can help save on your energy costs. The Skin Cancer Foundation recommends many 3M™ Window Film products as effective UV protectants.

3M™ Sun Control Window Film Prestige Series

Clearly superior. Designed to maintain the appearance of your home, Prestige Series films combine lower than glass reflectivity with film options that allow most of the light into your home. Prestige Series films allow 40% to 70% of the natural light into your home. The only thing you'll see day or night, inside or out, is a beautiful window.

Toll Free Number: 1-866-499-8857
Website: www.3m.com/windowfilm

LEED® Claim:
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

Environmental/ Energy Advantage
Solar heat comes from two primary sources, the visible light you can see and the infrared light you can feel. Prestige Series window films use non-metallized, multi-layer optical film and nano-technology to reject up to 97% of the sun's infrared light and reject up to 60% of the heat coming through your windows. These films also reject up to 99.9% of damaging UV rays to reduce fading of your furnishings. These industry-leading, spectrally-selective films are designed to keep you cool, comfortable and protected.
### 3M™ Sun Control Window Films Neutral

High heat reduction. These tinted, reflective films combine high heat reduction with a quick return on investment.

**Toll Free Number:** 1-866-499-8857  
**Website:** www.3m.com/windowfilm

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage**

Our films block up to 99% of the sun's damaging UV rays which are the single largest cause of fading and sun damage. Additional benefits include an elegant appearance, reduced glare and improved comfort. 3M™ Neutral Sun Control Window Films reject up to 66% of the sun's heat that comes through the window. By reducing heat, you can help save on your energy costs. The Skin Cancer Foundation recommends many 3M™ Window Film products as effective UV protectants.

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### 3M™ Sun Control Window Films Silver

High heat reduction. These tinted, reflective films combine high heat reduction with a quick return on investment.

**Toll Free Number:** 1-866-499-8857  
**Website:** www.3m.com/windowfilm

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage**

Our films block up to 99% of the sun's damaging UV rays which are the single largest cause of fading and sun damage. Additional benefits include an elegant appearance, reduced glare and improved comfort. 3M™ Sun Control Window Films Silver reject up to 77% of the sun's heat that comes through the window. By reducing heat, you can help save on your energy costs. The Skin Cancer Foundation recommends many 3M™ Window Film products as effective UV protectants.
3M™ Window Insulator Kit

An innovative solution for reducing heating costs and saving energy. Window Insulator Kits are available in a variety of sizes for both indoor and outdoor installation and feature clear film that shrinks tight and is wrinkle free. They reduce condensation and air infiltration through closed windows, when applied as directed.

**Website:**  [www.3m.com/Product/information/Window-Insulator-Kit.html](http://www.3m.com/Product/information/Window-Insulator-Kit.html)

**Environmental/ Energy Advantage**

Saves energy, reduces condensation and air infiltration. Save up to $17* per window this heating season. *Based on averages from the northern half of the U.S. Actual energy savings will vary depending on many factors, including furnace and window type, average indoor/outdoor temperature and length of heating season.

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**Air Filtration**

Filtrete™ Ultra Quiet Room Air Purifier

The Filtrete™ Ultra Quiet Room Air Purifier cleans room sizes up to 90 square feet, ideal for a small bedroom or home office. The Filter is 96% effective at capturing large allergens like pollen, mold spores and dust mite debris.

**Toll Free Number:** 1-800-388-3458

**Website:**  [www.filtrete.com](http://www.filtrete.com)

**LEED® Claim:**

This product meets the criteria for Sustainable Purchasing - Durable Goods in the United States Green Building Council's LEED® for Existing Buildings: Operations and Maintenance, Materials & Resources ("MR") Credit 2. The equipment is ENERGY STAR® qualified.

**Environmental/ Energy Advantage**

This product meets the requirements for the ENERGY STAR® room air cleaner guidelines.
Elipar™ S10 LED Curing Light

Elipar™ S10 LED Curing Light from 3M ESPE is the latest advancement in LED curing technology. Ideal for composites, compomers, adhesives and light-cured glass ionomer materials, this next-generation, high-intensity light polymerization device is built for high performance and durability.

Website: www.3MESPE.com

Environmental/ Energy Advantage

Compared to conventional halogen curing lights, there’s no bulb and no fan—resulting in minimal heat and silent operation. The curing light’s unique heat-sink technology cools the LED. A built-in microprocessor ensures constant LED light.
Air Cleaning

3M™ Office Air Cleaner OAC150
Compact-sized air cleaner helps clean the air and reduce odors in your work area. 3M™ Office Air Cleaners have a three-stage filter design that includes both Filtrete™ filter media and ionization for airborne particulate removal, and carbon for odor reduction. Recommended for 12’ x 18’ room size.

Toll Free Number: 1-800-332-7483
Website: www.3m.com/myworkspace
LEED® Claim:
Use of this product helps contribute to LEED® Green Building Certification EB O&M Credit 2.1 Sustainable Purchasing: Electric-Powered Equipment because 3M™ Office Air Cleaners are ENERGY STAR® qualified.

Environmental/ Energy Advantage
3M™ Office Air Cleaners use Filtrete™ Filters and have an ionization feature which enhances cleaner efficiency. Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

3M™ Office Air Cleaner OAC250
Compact-sized air cleaner helps clean the air and reduce odors in your work area or conference room. 3M™ Office Air Cleaners have a three-stage filter design that includes both Filtrete™ filter media and ionization for airborne particulate removal, and carbon for odor reduction. Recommended for 16’ x 20’ room size.

Toll Free Number: 1-800-332-7483
Website: www.3m.com/myworkspace
LEED® Claim:
Use of this product helps contribute to LEED® Green Building Certification EB O&M Credit 2.1 Sustainable Purchasing: Electric-Powered Equipment because 3M™ Office Air Cleaners are ENERGY STAR® qualified.

Environmental/ Energy Advantage
3M™ Office Air Cleaners use Filtrete™ Filters and have an ionization feature which enhances cleaner efficiency. Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

Desk Solutions

3M™ Glare Reducing Task Light, TL1000C

Toll Free Number: 800-332-7483
Website: www.3m.com/myworkspace

Environmental/ Energy Advantage
Fluorescent lamp delivers 27W energy-efficient light quality (1750 lumens).

*The amount of glare reduction in reading materials is dependent on viewing angle. Glare reduction is reduced by 50% at a 30-degree reflection angle from light to eye, and reduced 80% at a 60-degree angle from light to eye.
**Home & Office**

**3M™ Glare Reducing Task Light, TL1000S**


**Toll Free Number:** 800-332-7483  
**Website:** www.3m.com/myworkspace

**Environmental/ Energy Advantage**

Fluorescent lamp delivers 27W energy-efficient light quality (1750 lumens).

*The amount of glare reduction in reading materials is dependent on viewing angle. Glare reduction is reduced by 50% at a 30-degree reflection angle from light to eye, and reduced 80% at a 60-degree angle from light to eye.

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**Presentation Products**

**3M™ SCP716 Super Close Projection System**

3M™ Super Close Projector SCP716 with 2400 lumens and XGA resolution (1024 x 768); 1800:1 contrast ratio; 4:3 aspect ratio with 16:9 supported. Projector has basic RGB and USB connectivity and can be used via tabletop or ceiling and wall mounted. Full connectivity with the proprietary, wall-mounted SCP Input/Output Module (I/O Module) complete with 2 RGB in and 1 RGB-out, S-Video, RS232, RJ-45 networking, two USB ports and RCA Audio, all with front-facing menu control at the presenter's fingertips. Full system includes Folding Wall with Speakers (total 40 watts) and an EZ Wall Bracket for mounting.

**Toll Free Number:** 1-800-328-1371  
**Website:** www.3M.com/meetings

**Environmental/ Energy Advantage**

Eco mode settings for brightness (wattage consumption) and high efficiency cooling system with low acoustic dB noise levels. WEEE and RoHS compliant. Power consumption: 1.3W standby mode. GREENGUARD Indoor Air Quality Certified®. GREENGUARD Children & Schools Certified.

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**3M™ SCP716W Super Close Projection System**

3M™ Super Close Projector SCP716W with 2500 lumens and WXGA resolution (1280 x 800); 1800:1 contrast ratio; 16:10 native aspect ratio with 4:3 and 16:9 supported. Projector has basic RGB and USB connectivity and can be used via tabletop or ceiling and wall mounted. Full connectivity with the proprietary, wall-mounted SCP Input/Output Module (I/O Module) complete with 2 RGB in and 1 RGB-out, S-Video, RS232, RJ-45 networking, two USB ports and RCA Audio. Complete with front-facing menu control at the presenter's fingertips. Full system includes Folding Wall with Speakers (total 40 watts) and an EZ Wall Bracket for mounting.

**Toll Free Number:** 1-800-328-1371  
**Website:** www.3M.com/meetings

**Environmental/ Energy Advantage**

Eco mode settings for brightness (wattage consumption) and high efficiency cooling system with low acoustic dB noise levels. WEEE and RoHS compliant. Power consumption: 1.3W standby mode. GREENGUARD Indoor Air Quality Certified®. GREENGUARD Children & Schools Certified®.
3M™ Super Close Projector SCP717

Ideal for a mid-sized or space-challenged classroom, conference room or boardroom, the 3M™ SCP717 Super Close Projector was one of the first high-brightness, DLP short throw projectors to enter the market. The SCP717 features 3,000 lumens of brightness, a 1600:1 contrast ratio; 4:3 native aspect ratio with 16:9 supported; Brilliant Color, DVI-D connectivity, an RJ-45 ethernet connection and an integrated wind tunnel design to minimize heat and fan noise. And the extreme off-axis short throw virtually eliminates light in the presenter's eyes, making it a great replacement for traditional ceiling mounted projectors. The fully integrated connectivity makes it the perfect tabletop media hub, too.

**Toll Free Number:** 1-800-328-1371  
**Website:** www.3M.com/meetings

**Environmental/ Energy Advantage**
Eco mode settings for brightness (wattage consumption) and high efficiency cooling system with low acoustic dB noise levels. WEEE and RoHS compliant. Power consumption: <5W standby.
**3M™ Aluminum Conductor Composite Reinforced**

3M™ Aluminum Conductor Composite Reinforced (ACCR) is a high voltage, overhead transmission conductor consisting of high-temperature, hardened aluminum-zirconium outer wires stranded around a core of fiber-reinforced aluminum composite wires.

**Toll Free Number:** 1-800-245-3573  
**Website:** www.3M.com/accr

**Environmental/ Energy Advantage**
Growing demand for power often times will place the needs of the environment opposite the needs of the consumer. Taller, more unsightly towers, the need to cut larger right-of-ways, and the need to use more renewable energy sources which may be located in remote areas are just a few of the issues surrounding the environment and the transmission grid today. By using 3M™ Aluminum Conductor Composite Reinforced for line upgrades or new construction in sensitive areas, a utility may be able to minimize the environmental impact of a particular transmission line by using the existing right-of-way and towers. Because of the reduced weight and sag of 3M's ACCR cable, the need to raise or rebuild towers is significantly reduced; likewise, the same properties allow for fewer towers on new construction projects.

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**3M™ Scotchkote™ Pipe Renewal Liner 2400**

3M™ Scotchkote™ Pipe Renewal Liner 2400 is an NSF/ANSI 61 certified polyurea lining which makes it possible to rehabilitate aging potable water pipes thereby extending service life while reducing leaks and improving water quality.

**Toll Free Number:** +1 (800) 722-6721  
**Website:** www.3M.com/water

**Environmental/ Energy Advantage**
3M™ Scotchkote™ Pipe Renewal Liner 2400 utilizes a trenchless process to rehabilitate potable water infrastructure. Since the pipe rehabilitation process is done in place, there can be significant cost savings at a lower installed carbon footprint when compared to digging up and replacing old pipes.

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**Architectural Finishes**

**3M™ Ceramic Microspheres White**

3M™ Ceramic Microspheres are unique, semi-transparent, white colored, fine particle size, high-strength microspheres. These products are typically used to reduce VOC levels; increase filler loadings; improve hardness; and add burnish, scrub and abrasion resistance to a variety of coating formulations. Due to the ceramic chemistry of these products, they are also UV transparent down to 25 nm and have found utility in radiation curable and thin-film powder coatings.

**Website:** www.3m.com/paintsandcoatings

**Environmental/ Energy Advantage**
Compared to other fillers such as calcium carbonate and mica, 3M™ Ceramic Microspheres' lower viscosity improves material handlings and could result in lower energy usage when mixing. In solvent-based formulations, the increased filler loadings means less solvent is needed, resulting in reduced VOCs.
Engineered Fluids

3M™ Novec™ 1700 Electronic Grade Coating
3M™ Novec™ 1700 Electronic Grade Coating is designed for moisture and corrosion protection of printed circuit boards and electronic components. It is a clear, low viscosity, low surface tension solution of a 2 wt% fluorochemical acrylic polymer carried in a hydrofluoroether solvent. The coating dries to a thin, transparent film with excellent hydrophobic and oleophobic properties. It repels oils, water, silicones and photore sist solutions. The coating is easy to apply (dip, spray or syringe dispensing), air-dries in seconds, requires little or no masking and is removable and repairable.

Toll Free Number: 1-800-810-8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
The carrier solvent in 3M™ Novec™ 1700 Electronic Grade Coating is non-flammable, low in toxicity, exempt from the definition of a volatile organic compound (VOC), non-ozone depleting, has a low global warming potential, and is listed as “acceptable without restrictions” under the U.S. EPA’s’ Significant New Alternatives Policy (SNAP) Program.

3M™ Novec™ 1702 Electronic Grade Coating
3M™ Novec™ 1702 Electronic Grade Coating is designed for moisture and corrosion protection of printed circuit boards and electronic components. It is a clear, low viscosity, low surface tension solution of a 0.2 wt% fluorochemical acrylic polymer carried in a hydrofluoroether solvent. The coating dries to a thin, transparent film with excellent hydrophobic and oleophobic properties. It repels oils, water, silicones and photore sist solutions. The coating is easy to apply (dip, spray or syringe dispensing), air-dries in seconds, requires little or no masking and is removable and repairable.

Toll Free Number: 1-800-810-8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
The carrier solvent in 3M™ Novec™ 1702 Electronic Grade Coating is non-flammable, low in toxicity, exempt from the definition of a volatile organic compound (VOC), non-ozone depleting, has a low global warming potential, and is listed as “acceptable without restrictions” under the U.S. EPA’s’ Significant New Alternatives Policy (SNAP) Program.

3M™ Novec™ 1720 Electronic Grade Coating
3M™ Novec™ 1720 Electronic Grade Coating is designed for easy clean and anti-smudge capabilities on a variety of surfaces such as flat panel displays and mobile electronic device components. It is a clear, low viscosity, low surface tension solution of a 0.1 wt% fluorosilane polymer carried in a hydrofluoroether solvent. The coating dries to a thin, transparent, permanent film with excellent hydrophobic and oleophobic properties. It covalently bonds to glass and metal oxide layers and protects steel, aluminum, composites and a variety of other surfaces. The coating needs to be thermally post-cured.

Toll Free Number: 1-800-810-8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
The carrier solvent in 3M™ Novec™ 1720 Electronic Grade Coating is non-flammable, low in toxicity, exempt from the definition of a volatile organic compound (VOC), non-ozone depleting, has a low global warming potential, and is listed as “acceptable without restrictions” under the U.S. EPA’s’ Significant New Alternatives Policy (SNAP) Program.
3M™ Novec™ 2702 Electronic Grade Coating
3M™ Novec™ 2702 Electronic Grade Coating is designed for moisture and corrosion protection of printed circuit boards and electronic components. It is a clear, low viscosity, low surface tension solution of a 2 wt% fluorochemical polymer coating carried in a hydrofluoroether solvent. The coating dries to a thin, transparent, permanent film with excellent hydrophobic and oleophobic properties. It creates repellency to hydrocarbons, silicone oils, and synthetic fluids. The coating is easy to apply and needs to be thermally post-cured.

Toll Free Number: 1-800-810-8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
The carrier solvent in 3M™ Novec™ 2702 Electronic Grade Coating is non-flammable, low in toxicity, exempt from the definition of a volatile organic compound (VOC), non-ozone depleting, has a low global warming potential, and is listed as “acceptable without restrictions” under the U.S. EPA’s Significant New Alternatives Policy (SNAP) Program.

3M™ Novec™ 2788 Electronic Grade Coating
3M™ Novec™ 2788 Electronic Grade Coating is designed for particle suppression in hard disk drives and can significantly reduce the particles shed from substrates. It can be used to replace electroless nickel and e-coats, filling in rough features on substrates, and trapping particles that are difficult to remove by standard cleaning processes. It is a yellow-dyed, low viscosity, low surface tension solution of a 15 wt% fluorochemical polymer carried in a hydrofluoroether solvent. It dries to a permanent film that covalently bonds to glass and metal oxides. It needs to be thermally post-cured. It is UV detectable and adhesives or labels will adhere to its surface.

Toll Free Number: 1-800-810-8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
The carrier solvent in 3M™ Novec™ 2788 Electronic Grade Coating is non-flammable, low in toxicity, exempt from the definition of a volatile organic compound (VOC), non-ozone depleting, has a low global warming potential, and is listed as “acceptable without restrictions” under the U.S. EPA’s Significant New Alternatives Policy (SNAP) Program.

3M™ Novec™ 649 Engineered Fluid
3M™ Novec™ 649 Engineered Fluid is an advanced heat transfer fluid, balancing customer needs for physical, thermal and electrical properties, with favorable environmental properties.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
3M™ Novec™ 649 Engineered Fluid is a low Global Warming Potential (GWP) heat transfer fluid engineered to meet the demands of increasingly restrictive global environmental regulations. Its dielectric properties make Novec™ 649 fluid useful for many heat transfer applications where hydrofluorocarbons or perfluorocarbons have previously been used, such as indirect and direct contact single and two-phase cooling of electronic components. Its inherent thermal stability and very low GWP makes it ideally suited for use as a working fluid in Organic Rankine Cycle (ORC) applications.
3M™ Novec™ 7100 Engineered Fluid

Its boiling point (61°C) and increased solvency make Novec™ 7100 fluid an ideal cleaning solvent in applications like vapor degreasing, wet cleaning and FOUP cleaning. Low surface tension helps it to penetrate into tight spaces found in delicate electronic equipment - providing a thorough and complete clean.

**Toll Free Number:** 1-800 810 8513  
**Website:** www.3M.com/Novec

**Environmental/Energy Advantage:**
Novec™ 7100 fluid is non-flammable, non-ozone depleting, exempt from the U.S. EPA definition of a volatile organic compound (VOC) and is approved without restrictions under the US EPA's Significant New Alternatives Policy Program (SNAP). Additional characteristics of Novec™ 7100 fluid include low toxicity and low global warming potential. Novec™ 7100 is a sustainable replacement for PFCs and HFCs.

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3M™ Novec™ 7100DL Engineered Fluid

Its boiling point (61°C) and increased solvency make Novec™ 7100DL fluid an ideal cleaning solvent in applications like vapor degreasing, wet cleaning and FOUP cleaning. Low surface tension helps it penetrate into tight spaces found to provide a thorough and complete clean, and its high purity helps to meet the increasing demands of the electronics industry.

**Toll Free Number:** 1-800 810 8513  
**Website:** www.3M.com/Novec

**Environmental/Energy Advantage:**
Novec™ 7100DL fluid is non-flammable, non-ozone depleting, exempt from the U.S. EPA definition of a volatile organic compound (VOC) and is approved without restrictions under the US EPA's Significant New Alternatives Policy Program (SNAP). Additional characteristics of Novec™ 7100DL fluid include low toxicity and low global warming potential. Novec™ 7100DL is a sustainable replacement for PFCs and HFCs.

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3M™ Novec™ 71DA Engineered Fluid

Novec™ 71DA fluid is a true azeotrope, with constant vapor and liquid composition at its boiling point. Novec™ 71DA fluid is a hydrofluoroether in an azeotropic formulation with trans-1,2-dichloroethylene and ethanol. Its increased solvency and low surface tension, as well as nonflammability and constant composition during boiling, make it ideal for immersion defluxing and degreasing applications. In addition, the ethanol component of Novec™ 71DA fluid provides enhanced removal of ionic contaminants.

**Toll Free Number:** 1-800 810 8513  
**Website:** www.3M.com/Novec

**Environmental/Energy Advantage:**
Novec™ 71DA fluid is non-flammable, non-ozone-depleting and has a low global warming potential. It is low in toxicity and the components are listed as "acceptable without restrictions" under the U.S. EPA's Significant New Alternatives Policy Program (SNAP). The high solvency and low toxicity make this product an ideal replacement for ozone-depleting compounds, hydrofluorocarbons, chlorinated solvents, and n-propyl bromide in many applications.
Industrial & Energy Solutions

3M™ Novec™ 71DE Engineered Fluid

A true azeotrope, Novec™ 71DE fluid has constant liquid and vapor composition at its boiling point. Novec™ 71DE fluid is an excellent cleaning, rinsing and drying agent. Its increased solvency, low surface tension, nonflammability and constant composition during boiling make it ideal for immersion and vapor degreasing, and for medium-duty cleaning of soils such as oils, greases and waxes.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/Energy Advantage

Novec™ 71DE fluid is non-flammable, non-ozone-depleting and has a low global warming potential. It is low in toxicity and the components are listed as "acceptable without restrictions" under the U.S. EPA's Significant New Alternatives Policy Program (SNAP). The high solvency and low toxicity make this product an ideal replacement for ozone-depleting compounds, hydrofluorocarbons, chlorinated solvents, and n-propyl bromide in many applications.

3M™ Novec™ 7200 Engineered Fluid

Its 76 deg C boiling point and excellent environmental, health and safety profile make Novec™ 7200 fluid useful in applications like heat transfer, cleaning, lubricant deposition and more, in a diverse range of industries.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/Energy Advantage

Novec™ 7200 fluid is non-flammable, non-ozone depleting, exempt from the U.S. EPA and CARB definitions of a volatile organic compound (VOC) and is approved without restrictions under the US EPA’s Significant New Alternatives Policy Program (SNAP). Novec™ 7200 is also listed as a clean air solvent (CAS) by the South Coast Air Quality Management District. Additional characteristics of Novec™ 7200 fluid include low toxicity and low global warming potential. Novec™ 7200 is a sustainable replacement for PFCs and HFCs.

3M™ Novec™ 7200DL Engineered Fluid

A high-purity version of Novec™ 7200 fluid, Novec™ 7200DL fluid is tightly-controlled for ions, metals and non-volatile residue. It is used when an application calls for high-purity materials.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/Energy Advantage

Novec™ 7200DL fluid is non-flammable, non-ozone depleting, exempt from the U.S. EPA and CARB definitions of a volatile organic compound (VOC) and is approved without restrictions under the US EPA's Significant New Alternatives Policy Program (SNAP). Novec™ 7200DL is also listed as a clean air solvent (CAS) by the South Coast Air Quality Management District. Additional characteristics of Novec™ 7200 fluid include low toxicity and low global warming potential. Novec™ 7200DL is a sustainable replacement for PFCs and HFCs.
3M™ Novec™ 72DA Engineered Fluid

3M™ Novec™ 72DA Engineered Fluid is a blend of azeotropes designed for medium to heavy-duty cleaning of solder flux residue, oils, greases and waxes, among others.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
Novec™ 72DA fluid is non-flammable, non ozone-depleting and has a low global warming potential. It is low in toxicity and the components are listed as "acceptable without restrictions" under the U.S. EPA’s Significant New Alternatives Policy Program (SNAP). The high solvency and low toxicity make this product an ideal replacement for ozone-depleting compounds, hydrofluorocarbons, chlorinated solvents, and n-propyl bromide in many applications.

3M™ Novec™ 72DE Engineered Fluid

Novec™ 72DE fluid is an excellent cleaning agent. Its increased solvency, low surface tension, nonflammability and stability make it ideal for vapor degreasing applications. It is intended for medium to heavy-duty cleaning of soils such as oils, greases and waxes.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
Novec™ 72DE fluid is non-flammable, non ozone-depleting and has a low global warming potential. It is low in toxicity and the components are listed as "acceptable without restrictions" under the U.S. EPA’s Significant New Alternatives Policy Program (SNAP). The high solvency and low toxicity make this product an ideal replacement for ozone-depleting compounds, hydrofluorocarbons, chlorinated solvents, and n-propyl bromide in many applications.

3M™ Novec™ 7300 Engineered Fluid

Novec™ 7300 fluid is a clear, colorless, odorless fluid that has utility in a wide variety of applications, including heat transfer, lubricant deposition, electronic testing and cleaning applications.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
A nonflammable, segregated hydrofluoroether, Novec™ 7300 fluid is low in toxicity, non-ozone depleting, has low global warming potential, and is exempt from the U.S. EPA definition of a volatile organic compound (VOC).

3M™ Novec™ 7300DL Engineered Fluid

Novec™ 7300DL fluid is a clear, colorless, odorless fluid. A high-purity version of Novec™ 7300 fluid, Novec™ 7300DL fluid is designed for demanding applications such as hard disk lubricant deposition and semiconductor cleaning and solvent applications.

Toll Free Number: 1-800 810 8513
Website: www.3M.com/Novec

Environmental/ Energy Advantage
A nonflammable, segregated hydrofluoroether, Novec™ 7300DL fluid is low in toxicity, non-ozone depleting, has low global warming potential, and is exempt from the U.S. EPA definition of a volatile organic compound (VOC).
**3M™ Novec™ 7500 Engineered Fluid**

High performance Novec™ 7500 fluid shares many of the inertness and dielectric properties of perfluorinated fluids, and offers an excellent environmental profile. It is finding use in heat transfer and cleaning applications.

**Toll Free Number:** 1-800 810 8513  
**Website:** www.3M.com/Novec

**Environmental/ Energy Advantage**

Because of its extremely low global warming potential (GWP) and wide liquid range (-100°C to 130°C), Novec™ 7500 fluid can help wafer fabs meet voluntary greenhouse gas emission reduction goals. Novec™ 7500 is also non-flammable, low in toxicity, non ozone-depleting and exempt from the U.S. EPA definition of a volatile organic compound (VOC).

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**3M™ Novec™ 8200 Engineered Fluid**

3M™ Novec™ 8200 Engineered Fluid is a clear, colorless, low-odor fluid intended to replace 1,1,1-trichloroethane and perchloroethylene in film cleaning applications.

**Toll Free Number:** 1-800 810 8513  
**Website:** www.3M.com/Novec

**Environmental/ Energy Advantage**

This non-flammable fluid is low in toxicity, has zero ozone depletion potential, low global warming potential (GWP), is exempt from the U.S. EPA definition of a volatile organic compound (VOC); and is listed as a Clean Air Solvent (CAS) by California’s South Coast Air Quality Management District.

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**Fire Protection**

**3M™ Novec™ 1230 Fire Protection Fluid**

3M™ Novec™ 1230 Fire Protection Fluid is a next-generation halon replacement, designed to address concerns for human safety, extinguishing performance and the environment. Unlike first-generation HFCs, Novec™ 1230 fluid defines sustainable clean agent protection with the following features: zero ozone depletion potential, A global warming potential of one, five-day atmospheric lifetime, safe for occupied spaces.

3M™ Novec™ 1230 Fire Protection Fluid can effectively be applied in flooding applications for Data Processing Centers, Telecommunications, Commercial and Military Aviation, Commercial Marine, Military Systems, Oil and Gas Petrochemical Facilities, Transportation, Recreation, Cultural Facilities, Medical Facilities, Manufacturing Facilities and Storage Areas.

**Toll Free Number:** 1-800-810-8513  
**Website:** www.3m.com/Novec

**LEED® Claim:**

Use of this product helps contribute to LEED® NC v2.2- EA Credit 4: Enhanced Refrigerant Management; and LEED® EB v2.0- EA Credit 4 Additional Ozone Protection.

**Environmental/ Energy Advantage**

With zero ozone depletion potential, extremely low global warming potential and short atmospheric lifetime, 3M™ Novec™ 1230 Fire Protection Fluid is the first chemical halon replacement to offer a viable, long-term, sustainable technology for clean agent fire protection.
3M™ Macurco™ Carbon Monoxide Detector, Controller and Transducer CM-6

The low-voltage, dual relay CM-6 helps to monitor carbon monoxide levels by measuring the concentration of carbon monoxide (CO), providing feedback and automatically controlling exhaust fans.

**Toll Free Number:** 1-800-243-4630

**Website:** 3m.com/detection

**Environmental/ Energy Advantage**

Theoretical savings for this strategy can be significant indeed. At current non-demand commercial electrical costs, the 1.2 watts to ventilate a square foot of parking garage for a year amounts to about $.74 per square foot annually, assuming continuous operation. If the fan use was reduced by 80%, a 10,000 square foot parking garage could save nearly $5,900 in electricity costs. While not every parking garage is heated, the natural gas cost savings in a heated garage can be even greater than the electrical savings. Ventilation control equipment is inexpensive by comparison. This equipment typically will start fans when the carbon monoxide concentration reaches a specified level based on OSHA and building code requirements. Some units allow this level to be set by the building owner and installer. Suggested retail price for the sensors and controllers is typically from 2 to 6 months of theoretical energy savings. Macurco™ has published data on one retrofit which provides an empirical check on these figures. A 46,000 square foot parking garage in Bloomington, MN was retrofitted with CM-21A detector/ controllers (predecessor of the CM-6). The hours of operation for the fans and energy use were measured for a two month period in the same season before and after the retrofit. The run time for the fans was reduced by 97.5%! During the test, an independent testing company monitored the carbon monoxide levels for 5 days continuously. The time weighted average CO concentration was 20 parts per million, well within established guidelines. Energy consumption during the test period demonstrated a payback of both material and installation of less than a year.

3M™ Nextel™ Ceramic Textiles and Composites

3M™ Nextel™ Ceramic Textiles and Composites provide innovative solutions in industries from aerospace to petroleum refining to metal processing. The outstanding thermal protection provided by Nextel™ Fabrics, Tapes and Sleevings allows engineers and manufacturers to handle high temperature applications up to 2500ºF (1371°C).

**Toll Free Number:** 800-367-8905

**Website:** 3m.com/ceramics

**LEED® Claim:**

Use of this product helps comply with LEED® NC v2.2, EB V2.0- EA Prerequisite 2: Minimum Energy Performance; and LEED® NC v2.2, EB V2.0- EA Credit 1: Optimize Energy Performance.

**Environmental/ Energy Advantage**

Among multiple uses, 3M™ Nextel™ Textiles are employed to seal tubes in refinery applications retaining their strength and flexibility even after prolonged exposure to temperatures in excess of 2200ºF. They prevent the ingress of tramp air and save money by decreasing fuel consumption, reducing heat losses and controlling excess oxygen.
3M™ Pressure Sensitive Cover Tapes

The 3M™ Pressure Sensitive (PSA) Cover Tape family includes 3M™ Non-Conductive Pressure Sensitive Cover Tape 2656, 3M™ Non-Conductive High Shear Pressure Sensitive Cover Tape 2658, 3M™ Conductive Pressure Sensitive Cover Tape 2666 and 3M™ Conductive High Shear Pressure Sensitive Cover Tape 2668. 3M™ PSA cover tapes are transparent, polyester film tapes with a synthetic, room temperature, pressure sensitive adhesive zone along each edge. 3M™ PSA cover tapes have been designed to seal electrical and electronic components into 3M’s family of polycarbonate carriers. 3M™ PSA cover tapes have desirable initial peel force which can be reached through the application of adequate pressure to the non-adhesive surface of the cover tape over the adhesive strips, with a reciprocating shoe or compliant roller mechanism.

Toll Free Number: 800-666-8273
Website: www.3Mtapeandreel.com

Environmental/ Energy Advantage
3M PSA cover tapes create an environmentally friendly solution that allows necessary conglutination at room temperature without any heating process. This technology not only eliminates the need for a heating device and accessories, but also saves energy from air-conditioning or cooling system, providing a comfortable working ambient.

3M™ Dielectric Tapes

3M™ Dielectric Tapes are excellent high temperature tapes for crystalline silicon (c-Si) and thin film applications. They provide reliable electrical insulation in a thin format. Automation potential allows for rapid application – high productivity.

Toll Free Number: 1-800-755-2654
Website: www.3M.com/solar

Environmental/ Energy Advantage
These products provide insulating properties in a variety of thin film solar applications. These products help control costs, speed assembly and potentially improve product reliability.

3M™ Solar Mirror Film

3M™ Solar Mirror Film 1100 is a silver metalized weatherable acrylic film. It has a solar-weighted total hemispherical reflectance of 94% at air mass 1.5 and is designed for use in concentrating solar collectors.

Toll Free Number: 1-800-755-2654
Website: www.3M.com/solar

Environmental/ Energy Advantage
This product offers a number of significant advantages over traditional glass mirrors, including higher reflectance, less weight and improved mechanical properties. These features can increase the output and design flexibility of your CSP system.
3M™ Cool Roofing Granules

3M is the world’s leading supplier of colored and specialty granules for use in the asphalt shingle industry. 3M recently added eight new colors, expanding the line of Cool Roofing Granules to nearly 20 wide ranging vivid colors. Cool Roofing Granules represent an energy efficient roofing granule technology. Based on 3M reflectivity test methods, Cool Roofing Granules are up to three times more reflective than comparable typical colored granules, which can help keep your home cool resulting in reduced energy consumption and lower energy cost.

**Toll Free Number:** 1-800-447-2914  
**Website:**  [www.scotchgard.com/roofinggranules](http://www.scotchgard.com/roofinggranules)

**LEED® Claim:**  
Use of this product helps contribute to LEED® NC v2.2- SS Credit 7.2; Heat Island Effect: Roof; and LEED® EB v2.0- SS Credit 6.2 Heat Island Reduction: Roof.

**Environmental/ Energy Advantage**  
Can help keep your home cool with less energy consumption and lower energy cost. 3M™ Cool Roofing Granules in the appropriate blend combination meet or exceed the 25% initial reflectance in order to qualify for the United States Environmental Protection Agency Energy Star® program.
Large Format Graphics

3M™ Light Enhancement Film 3635-100
3M™ Light Enhancement Film 3635-100 is a 5.5 mil film with a patented matte white diffuse reflective surface. It provides more than 94% reflectivity for increased light output and greater sign luminance, improving lighting efficiency, which may result in energy savings. Use it to cover all interior opaque surfaces within single-sided, internally illuminated cabinets such as signs and light boxes, channel letters, informational graphic light boxes, vending and dispensing machines and more. It can be electronically cut and thermoformed. Refer to 3M Product Bulletin 3635-100 for complete details.

**Toll Free Number:** 1-800-328-3908  
**Website:** www.3mgraphics.com

**LEED® Claim:**
Use of this product helps comply with LEED®2009 NC- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1: (Optimize Energy Performance); CI- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1.1: (Optimize Energy Performance); CS- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1; EB O&M- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1.

**Environmental/ Energy Advantage**
Use of this film can eliminate painting and VOC emissions from the painting process. In addition, it increases available light to allow sign manufacturers to decrease lighting components, resulting in less energy use.

3M™ Scotchcal™ Dusted & Frosted Crystal Film Series 5525SE
3M™ Scotchcal™ Dusted and Frosted Crystal special effect films allow the creation of distinctive designs and light effects on glass. They are affordable and provide an etched or sand blasted image. The films can be applied to glass, acrylic or polycarbonate. Available in Japan.

**Toll Free Number:** 1-888-650-3497  
**Website:** www.3Marchitecturalmarkets.com

**LEED® Claim:**
Use of this product helps comply with LEED®2009 NC- EQ Credit 8.1 (Daylighting); CI- EQ Credit 8.1 (Daylighting); CS- EQ Credit 8.1 (Daylighting) as related to increasing the level of daylight and dispersion.

**Environmental/ Energy Advantage**
Through their use on exterior windows, they can reduce glare and assist in the increase of daylighting and decrease in lighting- saving energy.

3M™ Scotchcal™ ElectroCut™ Graphic Film
These 2 to 4-mil cast vinyl films are available in many colors and finishes such as dusted and frosted crystal, fluorescent and translucent colors. The synthetic liner resists moisture absorption and static buildup for easier electronic cutting and assembly. All are suitable for cut graphics and application to transparent, opaque or reflective films and substrates. Some can also be screen printed. Use for commercial and industrial graphic applications, including emblems, vehicle graphics, labels, striping, general signage and two-way window markings.

**Toll Free Number:** 1-800-328-3908  
**Website:** www.3Mgraphics.com

**Environmental/ Energy Advantage**
Signs can be produced with minimal solvent exposure to sign shop personnel and without the generation of hazardous waste. 3M™ Scotchcal™ ElectroCut™ Graphic Film eliminates the use of solvent-containing screen printing inks.
3M™ Daylighting Film DF2000PE

3M™ Daylighting Film DF2000PE is a polymeric film providing specular reflection with greater than 99% luminous reflectivity for wavelengths from 400 nm to 775 nm (visible light). This high rate of reflectivity is especially important in applications where light is transferred or directed through multiple reflections. For example, when directing daylight down a duct or a tube with 20 points of reflection, going from 99 to 98% reflectivity (a 1% decrease) will cause a decrease in light output of up to a 20%. This metal-free, non-corroding and non-conducting film is well-suited for daylighting applications. It has a pressure sensitive adhesive for a secure bond and a polyethylene liner to protect its reflective surface during installation (see product bulletin).

**Toll Free Number:** 1-888-650-3497

**Website:** www.3Marchitecturalmarkets.com

**LEED® Claim:**
Use of this product helps comply with LEED®2009 NC- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1: (Optimize Energy Performance); CI- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1.1: (Optimize Energy Performance); CS- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1; EB O&M- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1. Also, NC, CI, CS- EQ Credit 8.1, as related to increasing the level of daylight.

**Environmental/ Energy Advantage**
This product is extremely efficient at reflecting visible wavelengths of light and can increase the efficiency of lighting or the use of daylight. Using this product to efficiently transfer daylight to the building interior, can reduce the energy required for lighting as well as improving the quality of the environment.

3M™ Daylighting Radial Lens Film DRLP22

3M™ Daylighting Radial Lens Film DRLP22 is a continuous web of 4-inch square UV-stabilized polycarbonate lenses. On one side are optical-quality circular prisms 0.0008 inches in depth. The other side of the 0.022-inch film has a smooth finish. The lenses are designed to capture sunlight from a wide range of angles and uniformly distribute the light from its lens surface to an interior space. The unique lens design reduces glare and eliminates hot spots, and because of the optical grade plastic used, the film does not alter the colors of the transmitted light. A majority of the light is contained in a cone angle of 90 degrees. This feature allows lighting designers to efficiently illuminate floor areas and maintain adequate ambient levels on the walls (see product bulletin).

**Toll Free Number:** 1-888-650-3497

**Website:** www.3Marchitecturalmarkets.com

**LEED® Claim:**
Use of this product helps comply with LEED®2009 NC- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1: (Optimize Energy Performance); CI- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1.1: (Optimize Energy Performance); CS- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1; EB O&M- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1. Also, NC, CI, CS- EQ Credit 8.1, as related to increasing the level of daylight.

**Environmental/ Energy Advantage**
This product is extremely efficient at reflecting visible wavelengths of light and can increase the efficiency of lighting or the use of daylight. Using this product to efficiently transfer daylight to the building interior, can reduce the energy required for lighting as well as improving the quality of the environment.
3M™ High Luminance Light Fiber

3M™ High Luminance Light Fiber is an especially brilliant type of fiber that creates a bright, visually uniform effect (See product bulletin). Features include: compliments neon and LED chip strips, high durability- resists breakage, fiber is flexible, design flexibility with clean appearance, ideal for indoor and outdoor applications, remote light source, cool to touch, no electrical hazard along fiber, low voltage alternatives, easy to change light source.

**Toll Free Number:** 1-888-650-3497

**Website:** www.3Marchitecturalmarkets.com

**LEED® Claim:**
Use of this product helps comply with LEED®2009 NC- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1: (Optimize Energy Performance); CI- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1.1: (Optimize Energy Performance); CS- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1; EB O&M- EA Prerequisite 2, (Minimum Energy Performance); EA Credit 1.

**Environmental/ Energy Advantage**
When paired with energy efficient solid state light sources, 3M™ High Luminance Light Fiber offers opportunity for energy savings over traditional light sources. 3M™ High Luminance Light Fiber is a more environmentally preferable solution than fluorescent or neon lights because it contains no mercury or heavy metals. Furthermore, 3M™ High Luminance Light Fiber is safer for use in public areas that are sensitive to glass breakage from traditional light sources.

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3M™ Light Mat

3M™ Flexible Light Mat is a green lighting solution that combines the best of all worlds: energy efficiency and competitive brightness. Inside 3M Flexible Light Mat, proprietary 3M™ technologies uniformly distribute bright LED light to keep your brand looking its best for optimum memory imprint. You’ll rest even easier knowing you’re helping minimize environmental impact. • Low-voltage, thermally managed LED light source. • Power consumption as low as 5 watts per square foot. • Emits bright, uniform light within enclosed sign box. • Excellent color balance; no hot spots. • LEDs are free of mercury and toxic gases.

**Website:** www.3mgraphics.com

**Environmental/ Energy Advantage**
3M™ Light Mat offers significant energy savings in backlit signage applications that would traditionally use high intensity discharge (HID) or fluorescent lighting. LEDs are free of mercury and toxic gases.
3M™ Diamond Grade™ DG³ Reflective Sheeting

3M™ Diamond Grade™ DG³ Reflective Sheeting provides higher luminance values than all other sheeting types at the distance most critical to drivers at 500 feet and closer. 3M™ Diamond Grade™ DG³ Reflective Sheeting performs at the optimal level to counteract changes in today’s driving environment. It is more visible to aging drivers, more effectively reflects low-emitting VOA headlamps, more efficient to accommodate wide observation and entrance angles, outstanding target value performance, greatly increased retroreflectivity efficiency, performs at all sight distances and overcomes the challenge of disadvantaged signs. High initial and retained retroreflectivity at multiple viewing angles. Fluorescent colors for improved visibility in daytime, twilight, and inclement weather as well as well as at night.

Toll Free Number: 1-800-553-1380
Website:  www.3M.com/tss

Environmental/ Energy Advantage

The product is constructed by laminating layers of material with minimal use of solvents or emissions. The long service life minimizes sign replacement and disposal costs. May eliminate the need for external sign illumination (for example, on overhead guide signs). The product is designed to minimize environmental impacts from manufacturing to disposal. The manufacturing process for 3M’s Prismatic Sheetings reduces VOC emissions by 97 percent, energy consumption by 77 percent and solid waste by 46 percent compared to encapsulated lens sheeting manufacturing processes.
<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ Aluminum Conductor Composite Reinforced</td>
<td>18</td>
</tr>
<tr>
<td>3M™ Ceramic Microspheres White</td>
<td>18</td>
</tr>
<tr>
<td>3M™ Color Stable Automotive Window Films</td>
<td>2</td>
</tr>
<tr>
<td>3M™ Complete Fuel System Cleaner</td>
<td>2</td>
</tr>
<tr>
<td>3M™ Cool Roofing Granules</td>
<td>27</td>
</tr>
<tr>
<td>3M™ Crystalline Automotive Window Film</td>
<td>2</td>
</tr>
<tr>
<td>3M™ Daylighting Film DF2000PE</td>
<td>29</td>
</tr>
<tr>
<td>3M™ Daylighting Radial Lens Film DRLP22</td>
<td>29</td>
</tr>
<tr>
<td>3M™ Diamond Grade™ DGI Reflective Sheeting</td>
<td>31</td>
</tr>
<tr>
<td>3M™ Dielectric Tapes</td>
<td>26</td>
</tr>
<tr>
<td>3M™ Do-It-Yourself Fuel System Tune-Up Kit</td>
<td>3</td>
</tr>
<tr>
<td>3M™ FX HP Automotive Window Films</td>
<td>3</td>
</tr>
<tr>
<td>3M™ FX ST Automotive Window Films</td>
<td>3</td>
</tr>
<tr>
<td>3M™ Glare Reducing Task Light, TL 1000C</td>
<td>15</td>
</tr>
<tr>
<td>3M™ Glare Reducing Task Light, TL1000S</td>
<td>16</td>
</tr>
<tr>
<td>3M™ High Luminance Light Fiber</td>
<td>30</td>
</tr>
<tr>
<td>3M™ Injector Cleaner</td>
<td>4</td>
</tr>
<tr>
<td>3M™ Intake System Aerosol Adaptor Kit</td>
<td>4</td>
</tr>
<tr>
<td>3M™ Intake System Cleaner Kit</td>
<td>4</td>
</tr>
<tr>
<td>3M™ Light Enhancement Film 3635-100</td>
<td>28</td>
</tr>
<tr>
<td>3M™ Light Mat</td>
<td>30</td>
</tr>
<tr>
<td>3M™ Macurco™ Carbon Monoxide Detector, Controller and Transducer CM-6</td>
<td>25</td>
</tr>
<tr>
<td>3M™ Max Strength Fuel System Cleaner</td>
<td>5</td>
</tr>
<tr>
<td>3M™ Nextel™ Ceramic Textiles and Composites</td>
<td>25</td>
</tr>
<tr>
<td>3M™ Novec™ 1230 Fire Protection Fluid</td>
<td>24</td>
</tr>
<tr>
<td>3M™ Novec™ 1700 Electronic Grade Coating</td>
<td>19</td>
</tr>
<tr>
<td>3M™ Novec™ 1702 Electronic Grade Coating</td>
<td>19</td>
</tr>
<tr>
<td>3M™ Novec™ 1720 Electronic Grade Coating</td>
<td>19</td>
</tr>
<tr>
<td>3M™ Novec™ 2702 Electronic Grade Coating</td>
<td>20</td>
</tr>
<tr>
<td>3M™ Novec™ 2788 Electronic Grade Coating</td>
<td>20</td>
</tr>
<tr>
<td>3M™ Novec™ 649 Engineered Fluid</td>
<td>20</td>
</tr>
<tr>
<td>3M™ Novec™ 7100 Engineered Fluid</td>
<td>21</td>
</tr>
<tr>
<td>3M™ Novec™ 7100DL Engineered Fluid</td>
<td>21</td>
</tr>
<tr>
<td>3M™ Novec™ 71DA Engineered Fluid</td>
<td>21</td>
</tr>
<tr>
<td>3M™ Novec™ 71DE Engineered Fluid</td>
<td>22</td>
</tr>
<tr>
<td>3M™ Novec™ 7200 Engineered Fluid</td>
<td>22</td>
</tr>
<tr>
<td>3M™ Novec™ 7200DL Engineered Fluid</td>
<td>22</td>
</tr>
<tr>
<td>3M™ Novec™ 72DA Engineered Fluid</td>
<td>23</td>
</tr>
<tr>
<td>3M™ Novec™ 72DE Engineered Fluid</td>
<td>23</td>
</tr>
<tr>
<td>3M™ Novec™ 7300 Engineered Fluid</td>
<td>23</td>
</tr>
<tr>
<td>3M™ Novec™ 7300DL Engineered Fluid</td>
<td>23</td>
</tr>
<tr>
<td>3M™ Novec™ 7500 Engineered Fluid</td>
<td>24</td>
</tr>
<tr>
<td>3M™ Novec™ 8200 Engineered Fluid</td>
<td>24</td>
</tr>
<tr>
<td>3M™ Office Air Cleaner OAC150</td>
<td>15</td>
</tr>
<tr>
<td>3M™ Office Air Cleaner OAC250</td>
<td>15</td>
</tr>
<tr>
<td>3M™ Pressure Sensitive Cover Tapes</td>
<td>26</td>
</tr>
<tr>
<td>3M™ Safety &amp; Security Window Film Ultra Neutral S35</td>
<td>9</td>
</tr>
<tr>
<td>3M™ Safety &amp; Security Window Film Ultra Neutral S50</td>
<td>9</td>
</tr>
<tr>
<td>3M™ Safety &amp; Security Window Film Ultra NV S25</td>
<td>10</td>
</tr>
<tr>
<td>3M™ Safety &amp; Security Window Film Ultra Silver S20</td>
<td>10</td>
</tr>
<tr>
<td>3M™ Safety and Security Window Film Ultra Prestige Series</td>
<td>10</td>
</tr>
</tbody>
</table>
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