

3M Science.
Applied to Life.™

Custom Solutions for Metalworking Industries

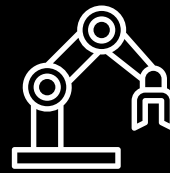


Fabricated Metals | Heavy Manufacturing (IM&E) | Transportation



Fabricated Metals

Subsectors including forging, rolling, pressing and forming metal for manufacturing.



Heavy Manufacturing (IM&E)

This sector comprises establishments primarily engaged in manufacturing industrial and commercial machinery.



Transportation

Sector produces equipment for transporting people and goods. Companies in this segment utilize production processes similar to those of other machinery manufacturing.

Empowered. From innovation to industry.

3M Metalworking Solutions give your workforce the power, protection, and confidence to deliver on quality, even in the toughest environments.

Metalworking Application Guide

Welding

Weld grinding is an important step in any metalworking process. Cleanly removing the excess weld metal requires an abrasive that can be used both quickly and carefully. Fortunately, 3M has weld grinding solutions for every project and skill level.

Cutting

At 3M, we offer abrasives discs and wheels that will cut fast, and also run smooth and stay sharp longer. That means you can get a fast clean looking cut without needing to stop and change abrasives often.

Grinding

Metal grinding is the backbone of any modern metalworking operation. Whether you're shaping large metal parts or removing ugly welds, 3M has the tools you need. We offer a range of solutions, including bench grinding wheels, discs for hand-held tools, parts for large production grinders and everything in between. With the right grinding products we can help you meet your metalworking demands – and get your parts into shape.

Bonding & Assembly Solutions

Looking for solutions to bonding and assembly challenges? Across industries, applications, and substrates, 3M offers a wide range of bonding products that can improve product design and make assembly processes more efficient.

Painting

Improve the state of your paint booth with 3M's Dirt Trap system and discover solutions such as PPS™ Paint Preparation System to increase productivity during your paint application process.

Finishing

Smooth metal surfaces while keeping part geometry intact. Striking a balance between strength and finesse, 3M offers a versatile set of metal finishing abrasive products and advanced ceramics to help you blend, prep and perfect.

Lane Marking & Hazard Warning

A tape for every job. Whether you're marking a wall, a pipe, or a loading dock, 3M has the right product durability, flexibility and vibrant colour you need to help maximize your workflow, safety and factory or warehouse appearance.

Maintenance & Repair

Built to stick. Whether your surface is smooth and refined, or rough and rugged; whether your job is for one hour or one year, 3M's portfolio of maintenance, repair & sealing tapes meets the industrial demands for sealing, repairing, bundling, coding or fixing in heavy duty or non-critical applications.

Packaging

3M offers a full line of high-performance, consistently reliable box sealing tapes. Delivering quality with tapes that keep production lines moving with less interruption and ensure packages are sealed on arrival.

Protecting Metal Workers

Protect your metalworkers' eyes, ears and lungs with the latest advances in worker safety products. High-quality, comfortable and cost-efficient, our protection gear is supported by exceptional technical expertise and customer service.

PPE solutions for metalworking industries



Airborne Hazards

It is important to understand the different levels of exposure to airborne hazards – dust, gases, vapours, smoke and fumes. In particular, it is crucial to determine which hazards workers are exposed to, for how long and in what concentrations.



Applications

Metal fabrication:

- › Forming, Bending/Rolling
- › Extruding; Drawing
- › Forging
- › Cutting
- › Machining
- › Deburring
- › Brazing, Soldering
- › Welding; air gouging
- › Grinding, Weld refinement, Edge bevelling
- › Heat treatment

Surface preparation:

- › Descaling, mechanical, shot-blasting
- › Degreasing, chemical cleaning
- › Pickling (Alkali, Acid Etching, Surface Prep)

Metal finishing:

- › Polishing (Electroplating, chemical milling, etching, phosphating, metalising; hot dip galvanising)



Exposure to Noise

Loud noise from many industrial processes can cause temporary and even permanent hearing loss. Metal industry processes often involve hand-held power tools and heavy machinery moving large amounts of material in difficult spaces – cranes, forklift trucks and loaders operate continuously. Combining hearing protection with communication solutions offers the wearer increased situational awareness when required.



Applications

Metal fabrication:

- › Bending, Rolling
- › Forging
- › Cutting
- › Machining
- › Deburring
- › Welding, Air gouging

Surface preparation:

- › Descaling, mechanical, laser, shot-blasting
- › Degreasing, Chemical cleaning

Metal finishing:

- › Polishing (Electro, Chemical milling, etching, phosphating, metalising)



Falling Objects

Falling or flying objects on a worksite can expose workers to relatively minor injuries, such as cuts and abrasions, as well as more serious injuries, such as concussions or blindness. Working beneath scaffolds or other areas where overhead work is being performed puts workers at risk from falling objects.



Applications

Metal fabrication:

- › Most applications

Surface preparation:

- › Most applications

Metal finishing:

- › Most applications



Eye & Face Hazards

Flying particles from processes such as cutting, grinding, scarfing or stamping are a potential cause of eye and face injury. Welding, cutting, tapping, melting and pouring operations may generate high levels of ultraviolet, infrared and visible light requiring appropriate protective equipment to minimise exposure for the worker.



Applications

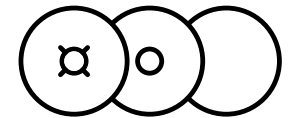
Metal fabrication:

- › Forming, Bending, Rolling, Drawing
- › Cutting, Machining, Deburring, Add. Manufacturing
- › Heat Treatment
- › Extruding
- › Forging
- › Brazing & Soldering; Arc welding / Arc air gouging
- › Grinding
- › Abrasive machining
- › Weld refinement
- › Edge bevelling



Hand-arm Vibration

Hand-arm vibration syndrome (HAVS) is an industrial injury that is caused by continuous exposure to vibrations from handheld tools or machinery. Prolonged exposure to vibration can damage the blood vessels, nerves and tendons in the fingers, hand and wrist. Such injuries cause reduced sensitivity, strength and dexterity. Once these conditions take hold, they are irreversible.



Applications

Metal fabrication:

- › Forging
- › Cutting
- › Deburring
- › Welding; gouging; fillet weld removal
- › Grinding, Weld refinement, Edge bevelling
- › Blending

Surface preparation:

- › Mill scale removal
- › Blending
- › Weld preparation

Metal finishing:

- › Most applications

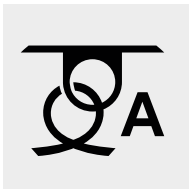
PPE solutions for metalworking industries



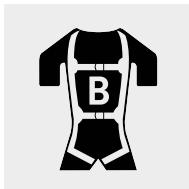
Working at Heights

A large proportion of reportable accidents are caused by falls from a height. The injuries caused are usually significant and sometimes fatal. Against this background, it is of vital importance to take the right measures for safe working at height.

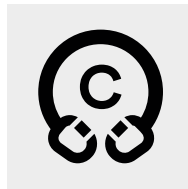
The ABCs of Fall Protection:



Anchor



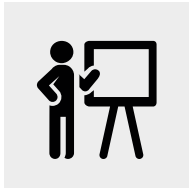
Body support



Connecting devices



Descent



Education



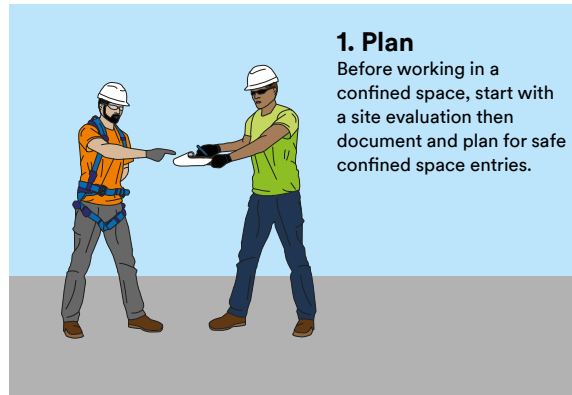
Fall protection for tools



Confined Spaces

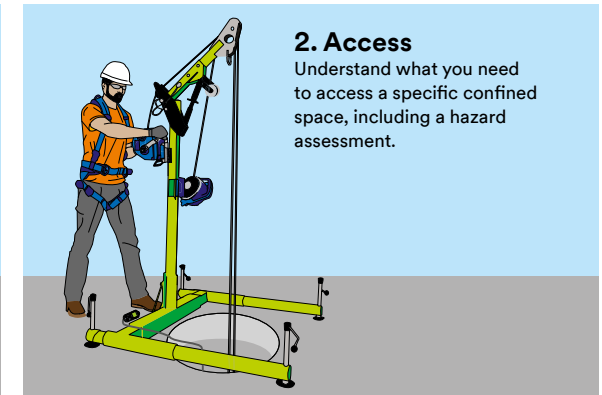
Confined spaces, as well as injuries and fatalities that occur within them, occur across almost all industries and workplaces. If the space is partially or fully enclosed and contains a hazard or some work within it creates a hazard to your health or safety, then the space may be classified as a confined space.

Elements of Working Safely in Confined Spaces:



1. Plan

Before working in a confined space, start with a site evaluation then document and plan for safe confined space entries.



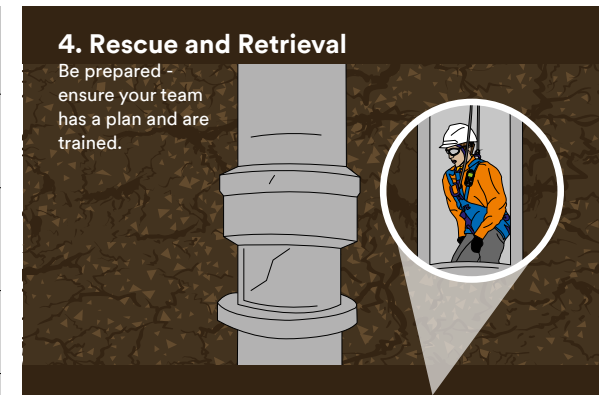
2. Access

Understand what you need to access a specific confined space, including a hazard assessment.



3. Work inside

Provide the appropriate personal protection equipment to the worker to protect from hazards seen and unseen.



4. Rescue and Retrieval

Be prepared - ensure your team has a plan and are trained.



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces



Hand-Arm Vibration

Welding, Cutting & Grinding

Metal Cutting

Rust, Scale & Paint Removal

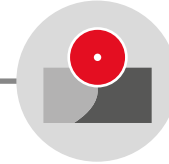
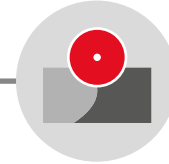
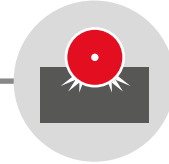
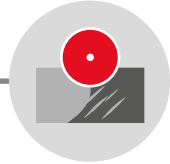
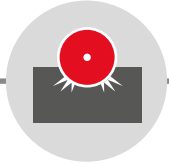
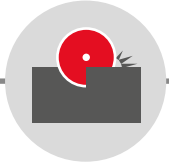
Weld Preparation

Welding

Weld Removal

Weld Cleaning & Discoloration Removal

Surface Refinement



CUBITRON™ II

3M's Precision Shaped Grain technology in 3M™ Cubitron™ II abrasives can help reduce the risks from exposure to hazards in the workplace. It has been engineered to continuously fracture to form sharp points and edges – slicing cleaner and faster, staying cooler, and lasting longer than conventional abrasives.



Requires Less Pressure

Allows the abrasive to do more of the hard work, reducing operator fatigue



Cuts Faster

Helps improve productivity, reducing "trigger" time on tool



Cuts Cooler

Less heat built up



Lasts Longer

Can reduce waste generated and lower costs



Safer Operation

Helps reduce exposure to vibration, airborne particles and noise



Runs Smoother

Easy to use

Cutting

3M™ Cubitron™ II Cut-Off Wheel

Featuring 3M Precision Shaped Ceramic Grain for an exceptionally fast cutting and long lasting wheel for use on almost all materials. Our cut-off wheels surpass other wheels in both performance and longevity, delivering significant gains in productivity.





Welding, Cutting & Grinding

Grinding

3M™ Cubitron™ II 982C Fibre Discs

Features stiff fibre backing, ultra-strong resin and 3M™ Precision Shaped Grain for an unrivalled cut rate and durability. Use for a variety of applications including edge chamfering, bevelling, weld removal, mill scale, surface imperfections and more.

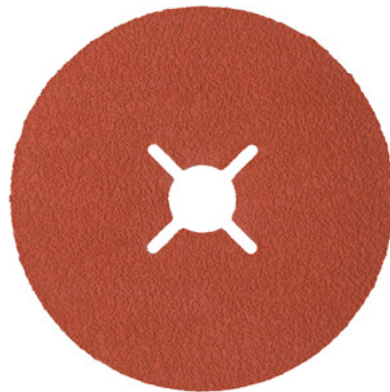
Properties/suitable for:
Mild steel



3M™ Cubitron™ II 987C Fibre Discs

Engineered to cut faster and last longer than competitive ceramic products. Incorporated grinding aid reduces grinding temperatures on heat sensitive alloys, increasing longevity. Ideal for weld removal, bevelling, grinding and blending among many other applications. Use to remove mill scale, pits and imperfections.

Properties/suitable for:
Stainless steel
superior finish



3M™ Cubitron™ II Fibre Disc 982CX Pro

Get more done with 3M™ Cubitron™ II Fibre Disc 982CX Pro. With a re-engineered 3M Precision-Shaped Grain, these fibre discs take the legendary cutting speed and life of 3M™ Cubitron™ II Abrasives to a new level. Available in 36+ grit for medium and high-pressure applications like weld grinding, beveling and heavy deburring.

Properties/suitable for:
Heavy duty grinding
applications



3M™ Cubitron™ II Depressed Center Grinding Wheel T27

Constructed of 3M Precision Shaped ceramic grain to offer a maximum cutting potential and long lasting rigid bonded wheel. They cut fast and cool as they wear evenly and are ideal for Robotic Weld grinding reducing downtime and changeouts. Our grinding wheels are specially formulated for use on stainless steel, mild steel, and aerospace alloys.





Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces



Hand-Arm Vibration

Welding, Cutting & Grinding

Blending

3M™ Cubitron™ II Flap Disc 967A

Features the highest performance Precision Shaped Ceramic Grain which avoids glazing by maintaining super-sharp edges throughout the life of the disc ideal for heavyweight applications.

Properties/suitable for:

Stainless steel



3M™ Cubitron™ II Flap Disc 969F

3M™ Cubitron™ II Flap Disc 969F is unique in design and feature a fast cutting abrasive material on flaps of tough polyester cloth. Recommended Application: Use for high unit pressure applications such as bevelling and slag removal.

Properties/suitable for:

High pressure applications (gouging, beveling)



Accessories

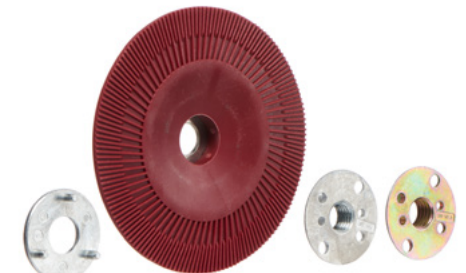
3M™ Flat Semi-Flexible Pad

For blending, finishing and general grinding applications.



3M™ Ribbed Back Up Pads

The 3M ribbed back up pad has been specially designed to deliver the optimum performance when using 3M Cubitron II fibre discs in heavy grinding applications.



“

Helping make the job easier, safer, and more comfortable.



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces

Bonding & Assembly Solutions

Large Surface Bonding

3M™ Spray Adhesives - At the touch of a finger – bonding power for substrates from paper to metal. 3M's portfolio of industrial-grade spray adhesives is designed to make assembly fast, convenient and efficient.

3M™ Multi Purpose Spray Adhesive 77

Offers a fast, aggressive tack that bonds a wide range of lightweight materials.

3M™ Heavy Duty and Hi-Strength Spray Adhesive 90

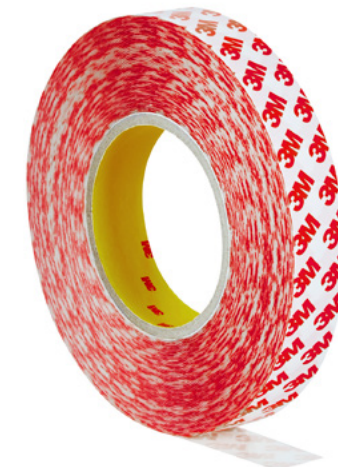
A versatile, fast-drying adhesive that forms extremely strong bonds on a wide range of materials.

Lightweight Bonding

3M™ Double Coated Tapes - When continuous bond lines and invisible bonding are critical to your product designs, look to 3M™ Double-Coated Tapes for reliable hold under the toughest conditions and a smooth, seamless finish.

3M™ High Performance Double Coated Tape GPT-020F

Excellent initial tack for enhanced performance as well as high adhesion to a wide range of surfaces.





Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces

Bonding & Assembly Solutions

High-Strength Bonding Tapes

3M™ VHB™ Tapes open up a world of possibilities — eliminating rivets, screws, bolts and welds — and improving design construction, aesthetics and productivity. With unmatched strength, these tapes increase the overall durability and reliability of every product bond.

3M™ VHB™ Tape 4910



Durable and reliable bonds of transparent materials or wherever a clear bond is needed.

Properties/suitable for:
transparent materials

3M™ VHB™ Tapes GPH-110GF



Excellent temperature resistance when bonding metal parts prior to heat cured paint processing.

Properties/suitable for:
Metal and high temperature resistance

3M™ VHB™ Tape LSE-110WF



Permanent bond designed for bonding LSE plastics such as PP, TPO, TPE, and composite materials without primer.

Properties/suitable for:
PP, TPO, TPE, composite materials

Structural Bonding

3M™ Scotch-Weld™ Structural Adhesives - In today's world, successful new products demand advancements in design, manufacturing processes and end-use performance. 3M™ Scotch-Weld™ Structural Adhesives can help engineers design beyond the limits of mechanical fasteners to create next generation products.

3M™ Scotch-Weld™ Epoxy Adhesive DP490



Epoxy adhesive with good stability under static and dynamic loads (vibration and impact).

Properties/suitable for:
Vibration and impact

3M™ Scotch-Weld™ Structural Plastic Adhesive DP8005



Acrylic adhesive designed for bonding low surface energy substrates (e.g. PP, PE, TPE - thermoplastic elastomers).

Properties/suitable for:
Bonds PP and PE

3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS



Bonds to a variety of substrates (especially bare metals) while resisting corrosion.

Properties/suitable for:
Bonds to a variety of metals



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces

Bonding & Assembly Solutions

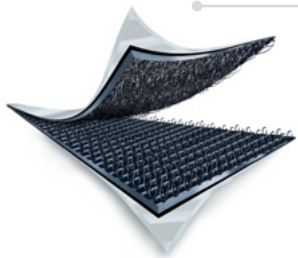
Reclosable Fastening Solutions

3M™ Reclosable Fasteners are the easy alternative to traditional fastening methods such as screws, nuts or bolts. Super strength. Ultimate ease. Durable enough to last through repeated opening and closing.

Selection chart

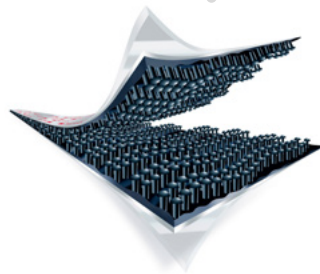
3M™ Nylon Hook & Loop Fastener SJ3526 / SJ3527

Alternative to a wide variety of reclosable attachment methods, including zips, screws, snaps, hooks and more.



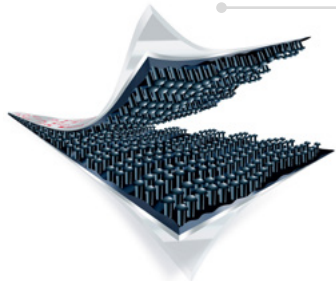
3M™ Dual Lock™ Reclosable Fastener SJ3550

Bonds well to metals, glass, plastics (e.g. acrylic, polycarbonate, ABS).



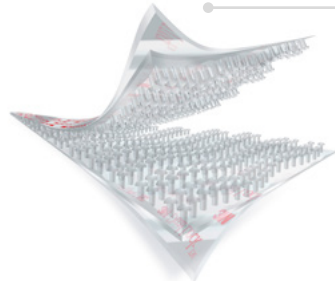
3M™ Dual Lock™ Reclosable Fastener SJ3540

Bonds well to polypropylene, polyethylene and critical paints.



3M™ Dual Lock™ Reclosable Fastener SJ3560

Translucent material is ideal for fastening transparent material.



Product number	Properties suitable for	Surface energy			Closure cycle life*	Holding power	Engaged thickness	Indoor and outdoor use	Holding power variations	Key Features
		High	Medium	Low						
SJ3526 (hook) SJ3527 (loop)	Flexible & bendable	++	++	++	5.000 x		3.6 mm ± 15%		Outdoor use: - SJ3571 (hook) - SJ3572 (loop)	Attachment alternative to a wide variety of closures, including zippers, screws, snaps, hooks and more.
SJ3540	Polypropylene & polyethylene	++	++	++	1.000 x		5.7 mm ± 15%		Stem density (per cm²): - SJ3540: 40 - SJ3541: 62 - SJ3542: 26	For use with many plastics (polypropylene, polyethylene, acrylic, polycarbonate and ABS) and powder-coated paints.
SJ3550	Metals & plastics	++	+	-	1.000 x		5.7 mm ± 15%		Stem density (per cm²): - SJ3550: 40 - SJ3551: 62 - SJ3552: 26	Bonds to a variety of substrates including metals and plastics such as acrylics, polycarbonate and ABS.
SJ3560	Translucent materials	++	+	-	1.000 x		5.7 mm ± 15%		Stem density (per cm²): - SJ3560: 40	Designed to give a translucent appearance (glass, acrylic, glass (PMMA), polycarbonate).



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces



Hand-Arm Vibration

Painting & Finishing *Surface Preparation*

Grind, Blend & Finish

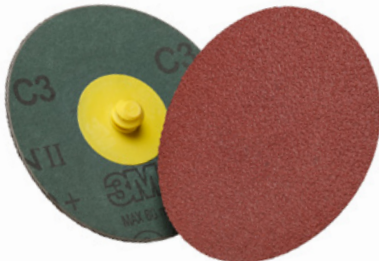
Scotch-Brite™ Roloc™ Surface Conditioning Disc SC-DR

The Scotch-Brite™ Roloc™ Surface Conditioning Disc combines our durable, non-woven disc with the efficient 3M™ Roloc™ quick-change attachment system for an effective disc that cleans, finishes, blends, and deburrs. Our non-woven fiber construction conforms well to help preserve irregular or contoured surfaces and the Roloc™ backing supports the disc for aggressive cutting.



3M™ Roloc™ 982C

3M™ Cubitron™ II Roloc™ Fibre Disc 982C offers outstanding performance and productivity for medium to high pressure grinding applications. Perfect for use on carbon steel for pits and imperfections, when a smaller disc is needed.



Surface Preparation

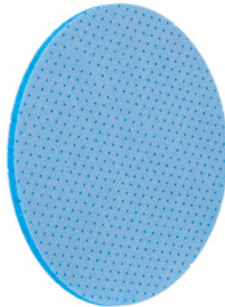
3M™ Hookit™ Flexible Abrasive Hand Sheet 270J

Ideal for hand sanding applications including primer sanding, blend preparation and paint finishing with great cut and finish performance and high flexibility and conformability. Face-Side Colour Differentiation by Process. Can be used for wet or dry sanding.



3M™ Hookit™ Flexible Abrasive Foam Disc

Flexible foam backed abrasive which conforms to irregular surfaces and can be used wet or dry and by hand or machine for blending applications. Excellent dust and water control to ensure a clean sanding environment.



Finishing

Scotch-Brite™ Clean and Finish Roll

Scotch-Brite™ Clean and Finish Roll delivers consistent results for finishing, blending, polishing, and cleaning on a variety of metals, wood, plastics surfaces as well as hard-to-reach areas.



Scotch-Brite™ Hand Pad

Scotch-Brite™ General Purpose Hand Pad 7447 combines flexibility with effective cutting action and precise hand control to accomplish tough cleaning jobs or produce fine finishing results, use after use. Very fine grade aluminium oxide abrasives cut fast and fine, leaving a smooth, finished surface. Suitable for use on a wide variety of materials and for many different tasks.





Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces



Hand-Arm Vibration

Painting & Finishing

Surface Preparation

Sanding

775L Hookit discs

3M Precision Shaped GrainThe multi-hole pattern on Clean Sanding products allows dust to be extracted at a higher rate compared to other hole patterns. Our film discs feature 3M PSG generating an extremely fast cut and long life. Ideal for a range of applications focused on stock removal and are effective on a wide variety of substrates – including metals, composites, gelcoat and whitewood.

Properties/suitable for:

Film Backing, high cut rate, longer life

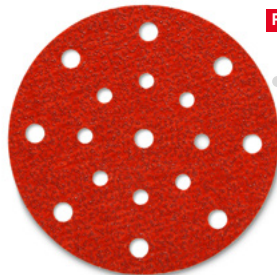


950U Hookit discs

3M™ Cubitron™ II Hookit™ Disc 950U is an abrasive disc designed to deliver high performance in body-in-white applications. It's powered by fast-cutting, long-lasting 3M Precision-Shaped Grain in a super-open-coat construction that resists loading with sanding swarf. The E-weight paper backing is specially designed for sanding metal. Ideal solution for removing paint, coatings and mill scale from galvanised steel, aluminium, fibreglass and other substrates that are prone to abrasive loading.

Properties/suitable for:

Paper backing for coarser backing



947A Hookit discs

Use 3M™ Cubitron™ II Hookit™ Cloth Disc 947A to cut cooler, faster, and for longer on a variety of substrates. Use for high volume, quick change operations, and for many specialised construction applications, such as shaping and dimensioning fibreglass architectural elements. Use for levelling and blending metal surfaces, especially in automotive 'body-in-white' applications.

Properties/suitable for:

Cloth backing for higher durability and heavy duty sanding



3M Xtract™ Cubitron™ II Net Disc 710W

Dust extraction meets industry-leading cut-rate in 3M™ Xtract™ Cubitron™ II Net Disc 710W. This premium sanding disc features a unique abrasive pattern on a net backing that allows for virtually dust-free sanding, with legendary 3M Precision-Shaped Grain technology. You'll finish more parts per disc with less dust in the environment, boosting productivity.

New!



The New 3M Xtract™ Cubitron™ II Net Disc 710W



Less Dust



Higher cut rate



No more compromises



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces



Hand-Arm Vibration

Painting & Finishing Surface Protection

3M™ Masking Tapes

3M™ Value Masking Tape 101E

Cost-effective general purpose value masking tape for room temperature indoor light-duty applications.

3M™ Performance Industrial Masking Tape 301E

Performance masking tape for general purpose industrial paint masking applications for air drying and oven curing of paint and lacquer up to a maximum of 100 °C for 1 hour.

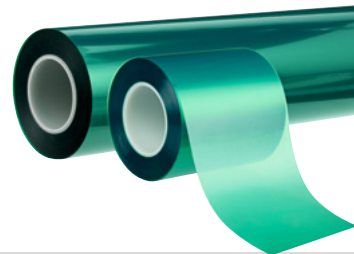
3M™ Washi Masking Tape 244

Designed for indoor and outdoor applications where UV resistance, clean removal and sharp paint line is required.



3M™ Powder Coat Painting 8992

Excellent temperature resistance (up to 204°C) and chemical resistant making it ideal for powder coating and anodization.



3M™ Precision Masking Tape PN06526

Engineered with an ultra-thin, exceptionally smooth paper backing, making it ideal for producing sharp, clean, precise paint lines when used with both solvent and waterborne paint systems. The tape is visibly thinner, yet removes from surfaces without tearing or leaving adhesive residue behind.



Selection chart

Product number	Period of use (days)	Temperature resistance (°C/1h)	Indoor and outdoor use	Straight lines and areas masking applications	Powder coating masking applications	Key Features
101E	1	60°C		✓		Good initial tack to a wide variety of surfaces.
301E	2	100°C		✓		The tape resists solvents and moisture and will not bleed through – also suitable for use with water-based paint systems.
244	30	100°C		✓		Excellent UV resistance for long term indoor and outdoor use up to 6 weeks.
8992	2	204°C		✓	✓	Conformable polyester tape ideal for masking in powder coat painting applications and splicing of silicone liners, films and papers.
PN06526	14	121°C		✓		Crisp, sharp paint lines, giving a clean masking edge. Smooth and easy unwind. Solvent and moisture resistant backing. Constructed with an acrylic adhesive to provide excellent UV resistance.



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces



Hand-Arm Vibration

Painting & Finishing

Surface Protection

Surface Protection

3M™ Dirt Trap Protection Material

A specially engineered adhesive-backed white material designed to protect paint booth walls and floors, trap dust, dirt and overspray and brighten work areas.



3M™ Clear Masking Film

High density, clear polythene sheeting designed to protect the vehicle from paint overspray. No paint or primer flaking. Static cling ensures complete masking. Simple one-person application. Easy to cut.



3M™ Professional Panel Wipes



Non-woven, dry wipe designed for use in conjunction with a degreasing solvent in the preparation of panels. It can also be used for heavy duty cleaning and a wide variety of wiping applications within the shop. Excellent absorbency and super strength when wet or dry. Dense structure, virtually no lint. 400 wipes per box.

3M™ Perfect-It™ Ultra Soft Cloth



Use our high performance 3M™ Perfect-It™ Ultra Soft Cloth to wipe away residue, dust, dirt and fingerprints, without leaving scratches. Use on a wide range of surfaces including glass, metal, chrome, vinyl and leather.

Final Finish

3M™ Hookit™ Purple Finishing Film Abrasive Disc 260L



Used for scuffing the blend area before painting and removing dust nibs and excess orange peel from topcoats. Get a fast cut and long disc life with aluminium oxide abrasive. Available in a wide range of grades and hole configurations.

3M™ Trizact™ Hookit™ Foam Abrasive Discs



Foam disc with pyramidal structure used for removing and refining sanding scratches prior to using 3M™ Perfect-It™ Polishing System, reducing polishing time increasing productivity. Less reworking time. Uniform removal. Smooth, uniform and reproducible finish. Longer life and less soiling thanks to foam material. Always use moist, dust extraction switched off.

3M™ Perfect-It™ Fast Cut Plus Extreme



3M™ Perfect-It™ Fast Cut Plus Extreme is a cutting abrasive liquid compound designed to remove sanding scratches optimized to work on automotive refinishing paints. Can be used with a range of 3M pads either with flat or convoluted foam pads. Designed for automotive paint rectification.



Painting & Finishing

Paint Application System

3M™ PPS™ Series 2.0 Kits

3M's Cleanest Disposable Cup System: 3M™ PPS™ Series 2.0 is a complete disposable spray cup solution for mixing/ measuring, filtering, and spraying. Integrated locking collars on lids to help reduce paint build-up and possible contamination and re-useable hard cups feature clear windows to make refilling easier by grasping liner while removing lid.



3M™ Performance Spray Gun System

Light-weight and easy to use for coatings application. Industrial coating solution that can help reduce process variability and boost productivity. Help to improve quality & consistency of paint/coating process and optimize material usage.



Reduce time spent on non-production activities such as spray gun equipment maintenance & cleaning. Variety of Atomizing Heads: Pressure (3 sizes: 1.1, 1.4, 1.8) and Gravity (6 sizes: 1.2, 1.3, 1.4, 1.6, 1.8, 2.0)

New!

3M™ PPS™ Colour Check Light II Kit

Portable light designed to make colour matching and the refinish process faster and easier, providing near daylight conditions for colour matching, checking coverage and identifying post painting defects. Bodyshops can replicate daylight conditions all the year round, reducing the chance of costly rework caused by colour mismatch, poor coverage or metallic layout and helps identify post-paint defects such as swirl marks, holograms and burn through.



New!

The new 3M™ Performance Spray Gun System improves:



Quality



Consistency



Productivity





Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces

Lane Marking & Hazard Warning

3M™ Industrial Tapes for Marking

A tape for every job. Whether you're marking a wall, a pipe, or a loading dock, 3M has the right product durability, flexibility and vibrant color you need to help maximize your workflow, safety and factory or warehouse appearance.

Selection chart

3M™ Vinyl Tape 471

Reliable, highly visible, highly versatile marking tape for colour coding, floor and safety marking applications.



3M™ General Purpose Vinyl Tape 764

Cost-effective choice for a variety of hazard, color coding, floor and safety marking applications in light traffic.



3M™ Safety Stripe Tape 5702

Developed to provide clear safety indication for driving and walking lanes, hazardous areas, protruding equipment and low hanging objects.



3M™ Hazard Marking Tapes 766/767

Ideal for marking of equipment pinch points or gears for warning purposes and floor marking in light traffic areas.



Product	Product number	Colour marking	Floor, wall, or loading dock marking	Hazard area marking	Clean removal	Traffic areas	Key Features
	471						Long-term high visibility and abrasion resistance
	764						Economical lane and colour marking in noncritical applications
	766						Economical safety marking in noncritical applications
	767						Economical safety marking in noncritical applications
	5702						Long-term high visibility and abrasion resistance



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces

Maintenance, Repairs & Sealing

Duct & Cloth Tapes

Whether on rough, rugged or smooth surfaces, whether you need to protect, seal, repair, bundle or fix; 3M™ Cloth and Duct Tapes meet the industrial demands of heavy duty or non-critical applications.

3M™ General Purpose Conformable Duct Tape 2903

General maintenance, bundling, wrapping, attaching, sealing, and protecting.

Properties/suitable for:
General purpose



3M™ Performance Plus Duct Tape 8979

Performance duct tape designed for clean removal for up to 6 months in many outdoor and indoor applications.

Properties/suitable for:
Clean removal



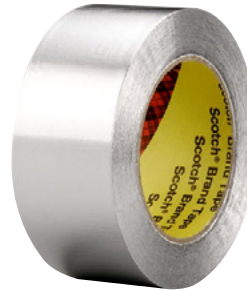
Aluminium Foil Tapes

Hold tight when extreme temperatures, moisture and exposure to UV rays or chemicals are a factor. Trust 3M foil tapes for your toughest jobs.

3M™ Aluminium Foil Tape 425

Designed for heat shielding, heat reflecting, chemical masking, light enhancement, chemical milling, seaming, sealing and de-paint operations.

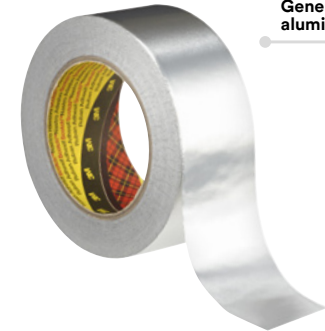
Properties/suitable for:
Performance aluminium foil tape



3M™ Aluminium Foil Tape 1436

General purpose foil tape ideal for ducting work, sealing and insulation in construction and air conditioning.

Properties/suitable for:
General purpose aluminium foil tape



“

Built to stick. Extremely fast, clean and easy.



Airborne Hazards



Noise



Eye & Face



Falling Objects



Fall Protection



Confined Spaces

Maintenance, Repairs & Sealing

Extreme Sealing Tapes

From rain gutters to flashing and vents, rooftops to underground cable enclosures, 3M extreme sealing tape ensures a quick and robust bond. It creates water tight seals and sticks on contact to numerous substrates without drying time, dripping, oozing or mess.

3M™ Extreme Sealing Tape 4411, 1.0mm

Sealing applications, conforms over contours, edges, rivets and screw heads for a water tight seal.



Specialty Single Coated Tapes

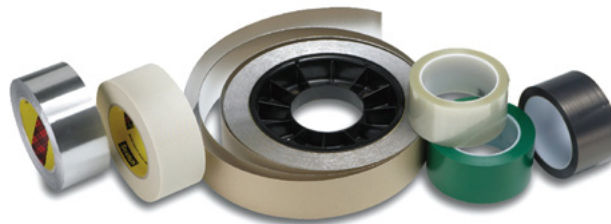
No matter what your taping situation is, there's a 3M speciality single coated tape to help you conduct, reflect, protect, mark, mask, repel, colour-code, cover, quiet and more.

3M™ Glass Cloth Tape 361

For high temperature applications such as sealing ducts, plasma spray masking and as a back-up strip for submerged arc welding.

3M™ UHMW Film Tape 5423

Designed for applications requiring a low coefficient of friction or a reduction of squeaks, rattles, noise.



Industrial Cleaner

The citrus based cleaner can help to prepare surfaces for adhesive bonding and removes dirt, grease, tar and various non-curing adhesives.

3M™ Industrial Cleaner

Removes dirt, grease, tar, and many non-curing type adhesives.





Packaging

3M™ Box Sealing Tapes

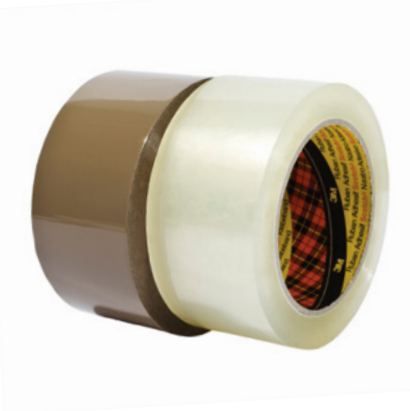
Get the dependability you can rely on for shipment sealing with Scotch® or Tartan™ Box Sealing Tapes. With choices of polypropylene backing and synthetic rubber or acrylic adhesives, you get dependable seals for a wide variety of box types, sizes, handling situations and storage conditions.

Scotch® General Purpose Low Noise Box Sealing Tape 309

Low noise general purpose box sealing tape suitable for lightweight packaging.

Properties/suitable for:

Low noise and colder & damper



Scotch® General Purpose Box Sealing Tape 371

General purpose box sealing tape designed to securely close a wide variety of lightweight boxes.

Properties/suitable for:

Economical general purpose



3M™ Filament High Strength Tapes

Bundling, reinforcing, palletising, strapping, heavy box closure. When you need a tape as strong as your reputation, you can count on 3M's consistently reliable, market-leading high strength tapes.

3M™ Universal Filament Tape 8956

Light weight bundling and reinforcing.

Properties/suitable for:

Fibreglass longitudinally reinforced



3M™ Bi-Directional Universal Filament Tape 8959

Medium weight bundling and reinforcing.

Properties/suitable for:

Bi-directional fibreglass reinforced





Personal Safety Solutions

Respiratory Protection



3M™ Aura™ 9300+ Series Disposable Respirators

3M™ Aura™ 9300+ Series Disposable Respirators are the result of 3M's continuous drive to improve comfort. The Ingenious 3-panel design fits a wide range of face shapes and sizes, also helps accommodate greater facial movement during speech making the respirator so much more comfortable to wear.



3M™ Reusable Half Face Mask 6500 QL Series

Reusable respirator designed for tough and dirty work environments. Quick Latch Drop Down mechanism makes it easy to put on or take off.



3M™ Secure Click™ Half Mask Reusable Respirator, HF-800 Series

Designed with smart and intuitive features 3M™ Secure Click™ Half Mask Reusable Respirator is simple, comfortable and reliable. Coming with an optional speaking diaphragm.



3M™ Versaflo™ Headtops, M-Series

Feature lightweight, compact and well balanced industrial safety helmets that can offer integrated protection from a range of respiratory, eye, face and hearing hazards.



3M™ Versaflo™ Hoods & Headcovers S-Series

Head cover with integrated head suspension which provides head, face, neck and shoulder coverage as well as providing eye and face protection from liquid splash and low energy flying particles and dust.



Welding Protection



3M™ Speedglas™ Welding Helmet G5-01VC with 3M™ Adflo™ Powered Air Respirator, 61 78 30

Get eye, face and respiratory protection (TH3 - NPF 500) with a flip-up welding filter optimized for the needs of heavy-duty welding but can be used for most welding applications.



3M™ Versaflo™ Intrinsically Safe Powered Air Respirator TR-800 Starter Kit

3M™ Versaflo™ Intrinsically Safe Powered Air Turbo Starter Kit TR-819E is our handy kit that's approved to Zone 0 requirements and so may be suitable for areas where potentially explosive atmospheres are expected and permanent within normal operations.



3M™ Versaflo™ Powered Air Respirator Starter Kits, TR-300+ Series

The Versaflo powered air system combines performance, protection and functionality with modern, stylish, lightweight design and unrivalled comfort. Powered Air Starter Kit TR-315UK+ contains TR-302E+ Turbo Unit, Particle Filter, Pre-Filter, Spark Arrestors, Standard Belt, High Capacity Battery, Battery Charger Kit and length adjusting Breathing Tube.



*Application: painting, coating, solvents, degreasing

*Application: abrading, grinding

*Product supply may be restricted due to COVID-19. Please contact 3M for latest product availability.



Personal Safety Solutions

Eye Protection



3M™ GoggleGear™ Safety Goggles 500 Series



Small profile Safety Goggles range with a lightweight design for all-day comfort and indirect airflow to help against fogging. 3M™ Scotchgard™ Anti-Fog Coating provides superior anti-fog and anti-scratch properties.



3M™ SecureFit™ Safety Glasses 400X Series



Lightweight eye protection with premium 3M™ Scotchgard™ Anti-Fog Coating options and a combined soft nose bridge and brow guard for additional comfort.



3M™ SecureFit™ Safety Glasses 500 Series



Sleek and compatible safety glasses range with adjustable ratchet temples to adjust the lens for facial features and eyeglass position, designed to help improve the positioning when worn with respirators. Available with different lens coating options including 3M™ Scotchgard™ Anti-Fog Coating.



3M™ SecureFit™ Overspectacles 3700 Series



Over The Glass (OTG) 3M™ SecureFit™ range designed to offer all-day wearability for workers wearing prescription glasses. The adjustable ratchet temples provide angle adjustment points on the temple to help create a secure and personalized fit. Contoured brow guard provide additional coverage from flying particles.



Hearing Protection



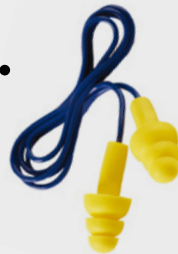
3M™ E-A-R™ Classic™ Earplugs, 28 dB

3M™ E-A-R™ Classic™ Earplugs are the world's first foam earplug with 3M's proprietary technology, providing a comfort and a low pressure in the ear, with an SNR of 28 dB. They remain one of the most popular models in the market today.



3M™ E-A-R™ Ultrafit™ Earplugs

The triple flange design fits comfortably in most ear canal sizes, reducing the noise by 32 dB. Reusable, they are cleaned easily with soapy water and reused again and again – helping decrease waste.



3M™ E-A-R™ Flexible Fit HA Earplugs

3M™ E-A-R™ Flexible Fit HA Earplugs are made from a 3M patented foam formulation, making them the first fully washable and reusable foam earplug in the market. They feature soft foam tips and a flexible fitting stem for easy insertion using one or two hands. The foam tip conforms to the unique shape of the ear canal to help block out noise.



3M™ PELTOR™ Earmuffs, 33 dB, Hi-Viz, Headband, X4A

3M™ PELTOR™ Earmuffs X4 are our lightweight and slim hearing protectors with innovative foam earcup inserts and spacers to help boost attenuation and protect against low frequencies up to 33 dB. They feature an electrically insulated, twin headband that decreases heat build-up on top of the head.



Communication Solutions



3M™ PELTOR™ ProTac™ III Headsets

Help protect your hearing while allowing safe, clear communication with nearby colleagues. Designed with dual shells for robust performance and are available in two different cup sizes; one with higher noise reduction and a slim version with lower noise reduction.



3M™ PELTOR™ Electronic Earplug, EEP-100 EU

Help protect your hearing and improve situational awareness and communications in challenging environments. The earpieces are rechargeable via a micro-USB jack on the charging case.



3M™ PELTOR™ WS™ LiteCom Plus Headset

3M™ PELTOR™ WS™ LiteCom Plus Headset, features an integrated pre-programmed analog two-way radio, Bluetooth® Multipoint connectivity, noise-cancelling microphone, and a level-dependent function for ambient listening.



Head & Face Protection

3M™ G500 Industrial Headgear Combination

Supplied with hearing protection and clear polycarbonate visor. A practical, convenient solution for face and hearing protection where no head protection is needed.



3M™ First Base™+ Bump Cap

Designed to provide limited head protection from bumps and minor lacerations to the head from stationary objects.



*Product supply may be restricted due to COVID-19. Please contact 3M for latest product availability.



Personal Safety Solutions



Fall Protection



3M™ Protector® PRO Welders Harness

Stay safe and protected when working at height with 3M™ Protector® Pro Welders Harness. Our welders harness is specifically designed to resist potential heat damage experienced in welding applications.



3M™ DBI-SALA® Nano-Lok™ Personal Self Retracting Lifeline for Hot Work

Self-Retracting Lifeline (SRL) specifically designed for welding, grinding and high heat applications and available in single leg or twin leg configurations. Features reinforced webbing with Nomex®/ Kevlar® fibre to withstand sparks, weld splatter and other high heat exposure.



*Kevlar and Nomex are trademarks or registered trademarks of E.I. du Pont de Nemours and Company.

3M™ DBI-SALA® EZ-Line™ Retractable Horizontal Lifeline Wire Cable System

Fast to install/remove temporary lifeline system. Built-in winch for easy set up. Length can be customized up to 18.25m. Ideal solution for maintenance teams.



3M™ Protecta® Welders Shock Absorbing Lanyards

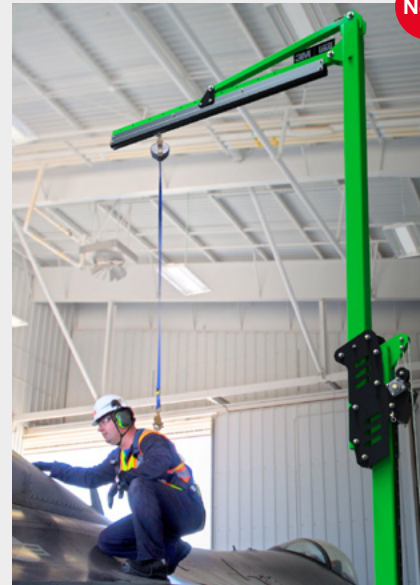
Our 3M™ Pro® Welders lanyard is constructed from reinforced webbing with Nomex®/ Kevlar® fibre and has been especially designed for high temperature applications. Lightweight and ergonomic user friendly design.



The 3M™ DBI-SALA® Flexiguard™ Modular Jib System

The 3M™ DBI-SALA® Flexiguard™ Modular Jib System is a collection of modular components that can be configured in a multitude of ways to create highly portable and highly configurable overhead anchorage solutions. A combination of base and mast assemblies can be interchanged with a variety of accessories to custom tailor a solution for a specific application or environment.

New!



Coveralls



3M™ Protective Coveralls 4532+

Designed to help protect against hazardous dusts (Type 5) and certain light liquid splashes (Type 6) with specialist treatments providing antistatic protection and an enhanced liquid repellency.



3M™ Protective Coveralls 4535

With dual material technology, designed to help protect against hazardous dusts (Type 5) and certain light liquid splashes (Type 6). Balance of Protection, durability and additional comfort.



Disclaimer

This guide is only an outline. It should not be used as the only means for selecting a personal protective equipment (PPE). Details regarding performance and limitations are set out on the PPE packaging and user instructions. Before using any item of PPE, the wearer must read and understand the user instructions for each product.

Specific country legislation must be observed. Please note that the applications shown highlight some of the hazards which may be considered. Selection of the most appropriate PPE will depend on the particular situation and should be made only by a competent person knowledgeable of the actual working conditions and the limitations of PPE.

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M makes no other warranties or conditions, express or implied, including, but not limited to, any implied warranty or condition of merchantability, fitness for a particular purpose, or arising out of a course of dealing, custom, or usage of trade. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



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