

3M Science.
Applied to Life.™



Industrial Tapes for Defense Aerospace Sustainment

Faster, cleaner, compliant repairs. Every day.

In the aerospace industry, efficiency and reliability are essential to maintenance, repair, and overhaul operations (MRO). Every task must meet strict performance expectations, even for non-flight applications. High-performing tapes that deliver consistent results help teams reduce downtime, avoid rework, and keep operations moving.

3M Industrial Tapes are engineered to provide fast, effective performance for team operations. They withstand demanding chemical, temperature, and environmental conditions common in aerospace MRO environments. Our global supply network, along with comprehensive traceability and documentation, ensures engineering departments meet all necessary qualifications and approvals.

3M tapes enable aerospace MRO operations around the world to improve efficiency, reduce rework, and keep turnaround times on track.

| Customer pain point | 3M Industrial Tapes capabilities | Core benefit |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Long cure time. | Immediate hold with no cure time. | Fast |
| Current tapes cannot endure extreme processes. | Optimized for bake cycles and fast changeovers. | Reliable and durable |
| Significant time is wasted removing residue or repairing paint defects. | Clean removal adhesive technology designed to reduce ghosting, adhesive residue, and other defects in the paint process. | Efficiency |
| I need products that comply with aerospace industry regulations, and getting product approval is a lengthy, time-consuming process. | Aerospace-ready documentation and traceability. | Compliance |
| I can't get products when I need them. | Ready supply, global stocking, and kitting options through 3M authorized distributors and converters. | Availability |
| My teams don't know the best way to use the products. | Application support available via 3M sales and application engineering professionals, SOPs, on-site demos, and training. | Support |



Which tape will work best?

We have grouped our industrial single-coated tape products around five common manufacturing needs:



Take on weather



Withstand temperatures



Resist chemicals



Paint with precision



Mark for safety and flow

Engineered to take on weather.



Defensive barriers keep out moisture, dust, and UV rays.

Aerospace parts, products, and components are often exposed to elements — whether rain, snow, sunshine, or salt water — that cause corrosion, fading, and other costly damage. The wrong solution can be expensive or even cause damage of its own.

These 3M industrial tapes can provide a conformable, rugged, weatherproof seal with clean, one-piece removal in long term storage and staging operations:

3M™ Preservation Sealing Tape 481



- Polyethylene backing that stretches and conforms to irregular surfaces and can cover difficult-to-reach areas
- One-piece, clean removal from most substrates
- Weather resistance to hot and cold temperatures, moisture, and UV exposure for up to 24 months
- Excellent resistance to staining, common lubricants, and strippable coatings on a variety of surfaces
- Certifiable to Military Specification: SAE-AMS-T-22085 Type II

3M™ Performance Plus Duct Tape 8979/8979N



- Outdoor, UV tolerant duct tape maintains versatile performance when exposed to elements
- Sticks immediately and stays on for up to one year without deterioration
- Conforms to irregular surfaces without lifting for clean removal up to six months after application
- Provides a tight, moisture-resistant seal in many containment situations
- Offers strong water-resistant backing that resists wear and light abrasion
- Available in red, slate blue, black, and olive colors
- UL Listed 723 & ASTM E84, MIL-STD-2041D

Products sold into civil aerospace for on aircraft applications are intended to be sold under an OEM specifications or FAA PMA

Engineered to withstand temperatures.



Shield against hot and cold extremes.

Parts in the aerospace industry can be exposed to extreme temperatures during use. Tapes can be vital tools in protecting parts from in-flight or in high-temperature maintenance processes.

Short-term, tapes may need to survive such applications as masking in high-temp paint curing cycles or welding processes.

Long-term, sensitive parts may be subject to heat from an engine or the low temperatures of an airplane cargo hold. These tapes can provide a protective shield, helping increase part durability.

3M™ Polyester Tape 8992/8992L



- Works in demanding conditions and high temperatures up to 400 °F/204 °C
- Ideal for flash breaking and high-temperature holding
- Engineered for tidy, one-piece removal, even after high-temperature masking or autoclave processes
- Lined version suitable for die cutting applications

3M™ Polyester Tape 875



- High temperature resistance, works in demanding conditions including autoclave cycles up to 350 °F/177 °C
- Rubber adhesive provides good initial tack, holding strength, and clean removability
- Suited for vacuum bag sealing and temporary holding
- Green color for easy identification and positioning

3M™ Aluminum Foil Tape 425/427



- Ideal for heat shielding and heat reflecting
- Quick stick and conformability to uneven surfaces
- Meets F.A.R 25.853(a)
- Lined version suitable for die cutting applications

3M™ Glass Cloth Tape 361/361L



- Strong abrasion-resistant backing that resists shrinking, rotting, or burning, providing exceptional stability in harsh environments
- Pressure-sensitive silicone adhesive for applications requiring high temperature resistance
- High adhesion with clean removal
- 3M™ Glass Cloth Tape 361L has a liner for die cutting applications
- Meets flammability requirements of FAR 25.853(a) Appendix F Part I (a)(1)(ii) and FAR Part 25.855(d)

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3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363/363L



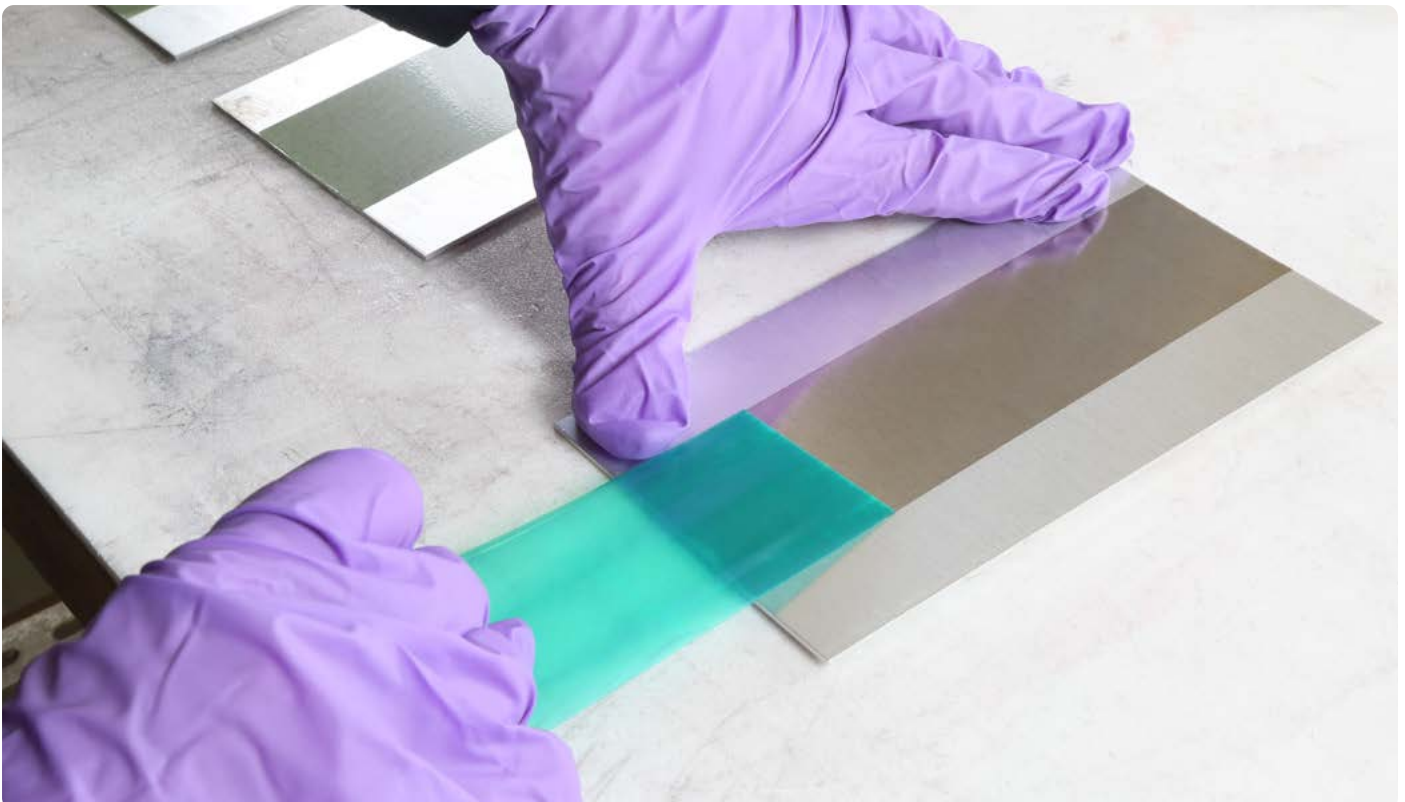
- Performs over a wide temperature range from -65 °F/-54 °C to 600 °F/316 °C
- Reflects light and heat, plus resists flame, moisture, chemicals, and UV degradation
- Glass cloth reinforced foil tape for increased tensile strength and puncture, fracture, and tear resistance
- Easily conforms to curved or irregular surfaces due to light and flexible construction
- Works to protect sensitive materials, such as wires, from long-term heat exposure or welding processes
- Meets flammability requirements of FAR 25.853(a) Appendix F Part I (a)(1)(ii)
- Meets the surface flammability and smoke density requirements for all categories and material functions as specified by NFPA 130 - Per ASTM E162 and ASTM E662
- Lined version suitable for die cutting applications

3M™ Glass Cloth Tape 398FR



- Durable backing provides abrasion and puncture resistance for long-term aging performance in aerospace applications
- Acrylic adhesive provides excellent long-aging properties ideal for many permanent applications
- Available on a slit liner for ease of application
- Meets flame retardant specifications of F.A.R. 25.853(a) and F.A.R. 25.855(d) and is EU Compliant
- Meets requirements of and can be qualified to Boeing material specifications BMS 5-146 Type I, Class I, Grade A

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Engineered to resist chemicals.

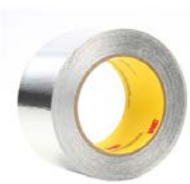


Strong seals keep surfaces safe.

Aggressive chemicals are commonly used in aerospace MRO operations. But many parts and surfaces are delicate, meaning they need to be protected during chemical exposure.

Here are a few leading tapes for these types of applications:

3M™ Aluminum Foil Tape 425/427



- Resistant to many harsh chemicals, de-paint processes, and other chemical masking operations used in MRO processes
- Quick stick and conformability to uneven surfaces
- Clean removal when the job is done
- Go-to tape for many aircraft maintenance specifications
- Can be certified to meet L-T-80C
- Meets F.A.R 25.853(a)
- 3M™ Aluminum Foil Tape 427 has a liner for die cutting applications

3M™ Electroplating Tape 470/470L



- Excellent resistance to electroplating chemicals
- Moisture-resistant backing for improved sealing capabilities
- Sharp line definition
- Rubber adhesive helps minimize risk of silicone contamination
- One-piece clean removal
- Lined version suitable for die cutting applications

3M™ Polyester Tape 8992/8992L



- Excellent chemical resistance for processes such as anodizing and electroplating
- Compatible with demanding conditions and high temperatures up to 400 °F/204 °C
- Engineered for tidy, one-piece removal
- Thin caliper backing provides sharp paint lines
- Flexible backing for contoured surfaces
- Lined version suitable for die cutting applications

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3M™ Anodization Masking Tape 8985L



- Designed specifically for masking in chromic acid (Type I) anodization baths
- Provides sharp masking lines and minimizes leaking to reduce the need for part rework
- Liner provides added stability for easy die-cutting
- Transparent purple color for fast, accurate positioning and easy identification
- Non-silicone formulation helps reduce post-process coating and bonding failures

3M™ Polyester Film Tape 853



- Thin, high-strength polyester backing resists tearing and protects surfaces from light abrasion and incidental scratches
- Transparent backing allows visibility of information protected by the tape
- Resistant to many solvents including jet engine fuel, hydraulic fluid and lubricating oils (meets Federal Spec. L-T-100 Type I)
- Meets flammability requirements of FAR 25.853(a) Appendix F Part I (a)(1)(ii)

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Engineered to paint with precision.



Create clean lines confidently.

Paint needs in the aerospace industry present unique challenges that can lead to unexpected expenses. Attention to detail at every step is what drives the final product to meet the demands of quality, consistency, and compliance.

3M provides a range of general purpose to high temperature paint masking solutions through our range of products in the 101+ through 501+ product families.

The following 3M industrial tapes are the go-to product offerings within the aerospace industry, providing clean removal and crisp paint lines the first time and every time.

Scotch® Flatback Masking Tape 250



- Aggressive rubber adhesive that provides instant adhesion to a wide variety of surfaces
- Certified to minimum 60 oz/inch adhesion to steel per ASTM D-3330 Method A
- Treated flat stock backing with good tensile strength to resist breakage

Scotch® Fine Line Tape 218



- High-performance polypropylene plastic tape that has both a low profile and high adhesion for use in painting long straight lines and sweeping curves where a crisp, sharp paint line is desired
- Often used as a layout tape for high value multi-color and custom painted graphics.

3M™ Paint Masking Tape 231 / 231A



- Designed to meet aerospace needs in most painting applications, including the use of multiple bake cycles
- Natural rubber adhesive provides instant stick and reliable holding power that resists lifting
- This tape can be certified to ASTM D-6123
- Withstands surface temperatures up to 300 °F/149 °C for 30 minutes in paint bake operations

3M™ High Performance Green Masking Tape 401+



- Delivers sharp, clean paint lines and is ideal for high-temperature paint baking, fascia painting and powder coating applications
- Withstands surface temperatures up to 250 °F/121 °C for 30 minutes in paint bake operations
- This tape can be certified to AMS-T-21595

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Engineered to mark for safety and flow.



Durable solutions stay put.

Floors, walls, and loading docks require clearly marked traffic lanes and hazard areas. When painting the line is too permanent for flexibility in MRO operations spaces, tapes are an alternative with easy application and durability against wear and fading that is essential to reduce safety risks and maintenance costs.

These 3M industrial tapes offer easy application, durability, and clean removal to help optimize your workflow and safety:

3M™ Durable Floor Marking Tape 971



- Extra durable vinyl backing for high-traffic areas and forklift traffic
- Easy application with strong bond on contact
- Clean removal without solvents or scraping
- Bright colors for high visibility
- Resists moisture and many chemicals
- Supports efficient layout changes compared to paint with minimal cleaning, preparation, and no drying time

3M™ Vinyl Tape 471/4712



- Excellent durability, abrasion, and chemical resistance
- Quick stick and excellent holding strength
- Available in a variety of vivid colors which persist over time
- Conform to rough or irregular surfaces while resisting edge lifting
- Can be used to make critical curved lines
- Tidy, one-piece removal to minimize cleanup and labor
- Lined version suitable for die cutting and large surface applications

3M™ Safety Stripe Vinyl Tape 5700/5702



- Black/yellow or black/white striped pattern printed below the surface to keep the striped pattern long-term
- Durability, abrasion, and solvent resistance
- Quick stick and excellent holding strength
- Conform to rough or irregular surfaces while resisting edge lifting
- Can be used to make critical curved lines
- Tidy, one-piece removal to minimize cleanup and labor

3M™ General Purpose Vinyl Tape 764 and 3M™ Hazard Marking Tapes 766/767



- Cost-effective option for color coding and safety marking applications
- A wide variety of colors helps mark up floors, walls, and a variety of surfaces
- Strong, flexible backing is ideal for use on rough and irregular surfaces

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3M™ Engineered Industrial Tapes with advanced adhesive technology.

3M has been in the science of making tape since 1925 and now has one of the most extensive single-sided tape offerings in the world. From common to niche, 3M™ Engineered Industrial Tapes bring a huge portfolio of innovative adhesive and backing combinations to solve almost any challenge.

When extreme challenges threaten your product's results, the high-performance technology behind 3M Engineered Industrial Tapes can help you manage environmental variables. With tape collections created to take on your specific challenges, we make it easy to find the solutions you need – no matter the environment.

191 varieties of backings

68 adhesive formulas

44 unique families of tapes





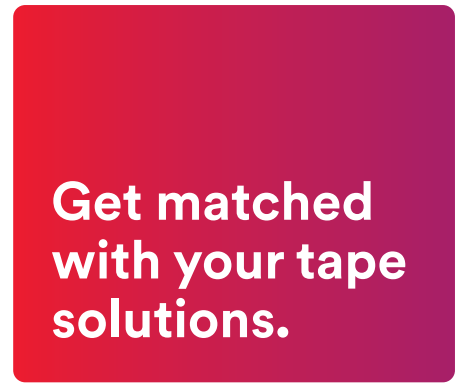
Take on Weather

Rain, snow or sunshine, your parts, products and components are often exposed to elements that cause corrosion, fading and other costly damage. What's more, the wrong solution can be expensive or even cause damage of its own.



Withstand Temperatures

Product parts can be exposed to extreme temperatures in both production processes and during long-term use. Tapes can be vital tools in protecting parts from unwanted heat or to maintain a part's surface design during a coating process.



Resist Chemicals

Aggressive chemicals are tools used in many modern production processes to form durable or decorative surfaces, or to make surfaces ready for another production step.



Paint with Precision

Attention to detail at every step is what drives the final product to meet the demands of both quality and consistency. Provides the clean removal and crisp lines needed to meet those challenges the first time and every time.



Mark for Safety and Flow

Clear, consistent, and durable markings help guide movement, highlight hazards and define work areas. High-visibility materials and reliable adhesion support safer navigation and smoother operations in busy environments.



Regulate Friction

Working across different surfaces can mean you don't always get the performance you need. When materials are getting stuck or you're getting slip when you need grip, you want a reliable solution that gives you a wide range of surface control without risking damage to your equipment or product.



Reduce Noise

Even a little vibration can cause premature wear and tear on parts or make for a noisy product experience for your customers. The right fix has to be precisely designed to minimize every rattle and buzz while keeping your products running smoothly.



Secure Confidently

Whether during shipment of a product or on the production line, movement is constant. With movement comes the challenge of keeping parts aligned, protected and functional.



3M™ Anodization Masking Tape 8985L

If a customer is interested in learning more,
offer to set up a meeting with an MRO lead in your area.



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