

Precision even in intense conditions.

3M™ Tapes for Metal Processing

3M innovative solutions help improve design and manufacturing processes in order to help you deliver competitive metal parts to the market. 3M is one of the leading manufacturers of high-performance masking and protection solutions. With our broad selection of tapes, we can help you find a solution for even the harshest metal processing steps.

- **Anodization.** Anodizing is an electrochemical conversion process used to increase the durability and corrosion resistance of metal parts by creating a surface oxide layer.
- **Blasting & Peening.** Peening is a process of working a metal's surface, often in preparation for further surface treatments, to clean and improve the strength and durability of the metal against fatigue and corrosion. Blasting with shot (shot peening) and light (laser peening) are common methods of peening.
- **Electroplating.** Electroplating is a process using electric current to coat one metal with a thin layer of a second metal in order to provide a decorative finish or enhance corrosion resistance.
- **Machining & Shop Handling.** Metal parts are subjected to machining processes such as bending, cutting and sanding during the transformation from sheet good to finished parts. They are also moved from station to station being exposed to scratch hazards such as dropped tools or loose rivets.
- **Powder Coating.** Powder coating is a process in which a dry chemical powder is electrostatically charged, sprayed onto a surface, and subsequently cured at high temperature to achieve a durable and decorative surface finish.
- **Bundling & Handling.** Contain metal parts, rods or components for easier transport from one location to another.

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Product Info	Anodization	Blasting & Peening	Electroplating	Machining & Shop Handling	Powder Coating	Bundling & Handling
 3M™ Polyester Tape 8402/8403 Tape 8402: 1.9 mil (0.048mm) Tape 8403: 2.4 mil (0.061mm)	Listed on multiple aerospace specs					
 3M™ Polyester Tape 8901/8902/8905 Tape 8901: 2.4 mil (0.061mm) Tape 8902: 3.5 mil (0.086mm) Tape 8905: 6.5 mil (0.16mm)					Premium powder coat product	
 3M™ Polyester Tape 8991/8992 Tape 8991: 2.4 mil (0.061mm) Tape 8992: 3.2 mil (0.082mm)	► Lead product choice; listed on multiple aerospace specs			Resistant to light scratches and abrasion; durable	► Lead product choice	
 3M™ Polyimide Tape 8997/8998 Tape 8997: 2.2 mil (0.057mm) Tape 8998: 3.3 mil (0.085mm)					Higher temperatures	
 3M™ Electroplating Tape 470 Tape 470: 7.1 mil (0.18mm)	Non-silicone; conformable; listed on multiple aerospace specs		► Lead product choice			
 3M™ Vinyl Tapes 471 Tape 471: 5.2 mil (0.13mm)	Non-silicone; conformable		Thin and more conformable	► Lead product choice		
 3M™ Electroplating/Anodizing Tape 484 Tape 484: 6.7 mil (0.17mm)	Lower adhesion; non-silicone; conformable		Lower adhesion			
 3M™ Lead Foil Tape 420/421 Tape 420: lined version of 421 Tape 421: 6.3 mil (0.16mm)	Conformable foil		Resistant to caustic baths; edges can be burnished			
 3M™ Impact Stripping Tape 500/528 Tape 500: 36 mil (0.91mm) Tape 528: 82 mil (2.1mm)		► Lead product choice; heavy-duty abrasion resistance to multiple media				
 3M™ Aluminum Foil Tape 425/427 Tape 425: 4.6 mil (0.12mm) Tape 427: lined version of 425	Non-silicone			Higher temp heat shielding where high temp may damage adjacent surfaces		
 3M™ Sandblast Resistant Vinyl Film Tape 33515 Tape 33515: 14 mil (0.36mm)		Resistant to less aggressive media and pressure				
 3M™ Sandblast Resistant Vinyl Film Tape 33518 Tape 33518: 9.3 mil (0.24mm)		Thinner version of 33515; more conformable				
 Scotch® Clean Removal Strapping Tape 8899HP Tape 8899HP: 4.8 mil (0.12mm)				High strength with clean removal and abrasion resistance		Thinner and more conformable
 Scotch® Filament Tapes 898 Tape 898: 6.6 mil (0.17mm)						► Lead product choice



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To learn more about 3M tape solutions for metalworking applications, visit 3M.com/IATD.

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