• **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.
# 3M™ Tapes for Metal Processing

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<th>Product Info</th>
<th>Anodization</th>
<th>Blasting &amp; Peening</th>
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</table>
| 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® Anodization Masking Tape 8985L  
Tape 8985L (liner): 3.9 mils (0.099mm) | Choice for the harshest conditions | | | | | |
| 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 | | | | | Resist to light scratches and abrasion; durable |
| 3M® Polymide Tape 8997/8998  
Tape 8997: 2.2 mil (0.057mm)  
Tape 8998: 3.3 mil (0.085mm) | | | | | | |
| 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: liner version of 421  
Tape 421: 6.3 mil (0.16mm) | Conformable foil | | | | | Resist 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: liner 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 |
| 3M® Scotch® Strapping Tape 8898  
Tape 8898: 4.6 mil (0.12mm) | | | | | | |
| Scotch® Filament Tapes 898  
Tape 898: 6.6 mil (0.17mm) | | | | | High strength with abrasion resistance. | Lead product choice |

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

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