



TECHMETALS

ENGINEERED METAL FINISHING & PERFORMANCE COATINGS



Experience, Service & Reliability



Medical Coatings & Processes

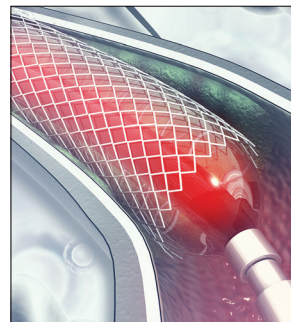
Technical Advantages

- BioBrite Validated Electropolish
- MedaPass Passivation
- MedaDize Titanium Anodize
(Color & Gray)
- TechCoat PVD Color Coatings
- TM-Rx Medical Grade Chromium
Coating (ISO 10993-1)
- Aluminum Anodize / Hard Coat
- Blasting & Grinding Services
- Laser Etching / Dark Marking
- Ultrasonic Cleaning
- R&D Engineered Finishes

For over 50 years, Techmetals, Inc. has been recognized as a leader in the metal finishing industry – proudly assisting clients around the globe with unmatched quality, service and reliability.

We understand that parts utilized in the medical field demand precision, quality and compliance to the highest degree. Our services are ensured through compliance with the industry's most stringent testing facilities such as **Nadcap Chemical Processing, Nadcap Coatings, ISO 9001:2015** and **ISO 13485:2016** to name just a few.

Our team of professionals offer a variety of metal finishes including **titanium and aluminum anodizing, passivation** and **medical-grade chrome plating**. We also provide **laser etching** services, truly making us a one-stop-shop for all your medical finishing needs.



Call: (937) 253-5311
www.techmetals.com

Techmetals will work closely with you to develop the processes and metal finishing to meet your specific requirements. From concept through completion, we will offer you the peace of mind that your projects are done right – the first time!

BioBrite, Medical Validated Electropolish

- Stainless Steels 300, 400 Series, PH and Aluminum
- Meets ASTM B912, ASTM 380 & ASTM A967 requirements



MedaPass, Medical Stainless Steel Passivation

- Both citric & nitric passivate
- Small to large part capacity with validated processes
- Accredited industry specifications



MedaDize, Color & Gray Titanium Anodize

- Validated titanium anodize (compatible)
- SAE AMS 2488 type II gray
- Standard colors on chart & custom colors available



Aluminum Anodize & Hard Coat

- FDA compliant - validated processes
- NSF approved colors available
- Custom and standard colors
- OxyTech processes for critical parts



Other Processes

- Laser Etching
- Dark Marking
- Blasting
- Grinding
- Ultrasonic Cleaning
- R&D Engineered Finishes
- Prototyping
- Testing & more



Techmetals Industry Specifications

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> ■ Alkaline Zinc
ASTM B 633 ■ Anodize
MIL-A-8625
AMS 2469
AMS 2471
AMS 2472
ASTM B 580* ■ Brush Plating
Nickel, Cobalt, Copper
MIL-STD-865C (USAF)
AMS 2451 ■ Copper
AMS 2418 ■ Chemfilm
MIL-C-5541
AMS 2473
MIL-DTL-5541 (Hex)
MIL-DTL-5541 (Hex Free)
BAC 5719
MAP-311088-1300
9904151 (Type 1) | <ul style="list-style-type: none"> ■ Cadmium
QQ-P-416
AMS QQ P 416 ■ Electropolish
ASTM B 912 ■ Gold
ASTM B 488 ■ Hard Chrome
AMS QQ C 320
AMS 2406
AMS 2460
ASTM B 177
FED-QQ-C-320
MIL-DTL-23422
MIL-STD 1501 F ■ Nickel Boron
AMS 2433
ASTM B 607* ■ Nickel/EN
AMS C 26074*
AMS 2404
AMS 2405 | <ul style="list-style-type: none"> ■ Nickel/EN (cont.)
AMS 2454
ASTM B 733
MIL-C-26074
MIL-DTL-32119 ■ Nickel / Sulfamate
AMS 2403
AMS 2424
AMS-QQ-N-290
FED-QQ-N-290
Union Carbide J5 1396 ■ Passivation
AMS QQ P 35
AMS 2700
ASTM A 380
ASTM A 967
ASTM F86*
FED-QQ-P-35
9904301 ■ Silver
AMS 2410
MS 2411 |
|---|--|--|

TechCoat PVD Coatings

- Extreme hardness & durability, low coefficient of friction
- Micro hardness 1,800 to 3,500 (Hv)
- Validated processes
- TechCoat 100 (TiN)
- TechCoat Med 100 (TiN)
- TechCoat DLA 200 (DLC), 1-5 Microns
- TechCoat 300 (AlTiN)
- TechCoat 345 (AlTiN), Medical
- TechCoat 400 (CrN)
- TechCoat 500 (ZrN)
- TechCoat 600 AlTiCrN



TM-Rx, Medical Grade Chromium Coating

- Can be applied to ferrous and non-ferrous metals – steel, stainless, aluminum and other materials
- Wear reduction & anti-galling coating, extreme hardness
- Low coefficient of friction, lubricity & corrosion protection
- Validated lines and processes

Plating Solutions

- Nickel
- Chrome
- Silver
- Gold
- Platinum
- and Others



Aluminum Anodize Color Imaging

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ AMS 2412
ASTM B 700
QQ-S-365 ■ Tin
ASTM B 545* ■ Titanium Coating
AMS 2488 ■ Zinc Nickel
AMS 2417
BAC 5680
BAC 5637 ■ PVD / Thin Film Vacuum
AMS 2444, TiN, DLC, TiCN, CrN, AlTiN, AlTiCrN, ZrN ■ Other
MIL-STD-186
MIL-STD-171
BAC 5625
Cobalt, Tungsten, Nickel PTFE, Diamond Coatings, | <ul style="list-style-type: none"> ■ OptaKoat, Hard Chrome, Replacements & more ■ Testing
Coating Weight, Adhesion Scratch & Chisel, Corrosion/Salt Spray & Porosity, B12 Adhesion Bend, Thickness & Magnetic, Eddy Current, XRF Micro-hardness, Water Immersion Bond Strength-tape, Metallography & Microstructure |
|--|---|

*Nadcap™ Accredited Processes are Shown in Blue. Other Nadcap™ processes may be available upon request. *Nadcap™ Accredited "other" under scope.*

Nadcap Chemical Processing
Nadcap Coatings
Nadcap NonDestructive Testing
ISO 9001:2015 ■ ISO 13485:2016
ISO 10993-1

