

Our Commitment to You

Over the years, Techmetals has built a reputation on a commitment to customer service and satisfaction. In-house engineers work tirelessly with our aerospace partners to develop new specifications, provide certified testing and even help develop new technologies and finishing solutions that coincide with the progression of the industry.

Techmetals' Scope of Metal Finishing Includes (but is not limited to):

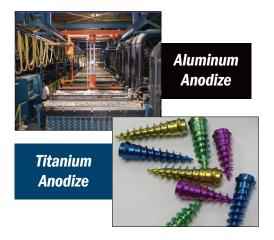


Cadmium

Cadmium plating is an attractive, soft coating that can be deposited on various base materials, up to and including steels, copper and different types of iron. Known as one of the few deposits that is sacrificial, this coating excels in corrosion protection. With natural lubricity, this coating also provides anti-galling and low friction properties.

Other characteristics of this coating are low chemical resistance, ease of solderability and the flexibility to coat on dissimilar materials. Due to the efficiency of the bath, Cadmium is an excellent solution for the coating of critical parts as well as complex geometries.

With rack plating abilities to satisfy both the large and small volume projects, our 1,500 gallon plating tanks will handle your needs.



Aluminum & Titanium Anodizing

Aluminum anodizing is an electrochemical process that converts aluminum into a durable, corrosion resistant, anodic oxide finish. This aluminum oxide is not applied to the surface like paint or plating, but is fully integrated with the underlying aluminum substrate, so it cannot chip or peel. It has a highly ordered, porous structure that allows for secondary processes such as coloring and sealing.

Anodized finishes have made aluminum one of the most respected and widely used materials today in the production of thousands of consumer, commercial and industrial products.

Titanium Anodize process is commonly used to create a unique range of colors for a base titanium metal — without the use of harsh dies or brighteners, leaving the substrate otherwise unchanged. This electrochemical solution basically changes the oxide layer on the base metal.



Electroless Nickel (EN) - Low, Mid & High Phosphorous

Electroless Nickel (EN) plating is a process that uses a chemical reaction to co-deposit it's Nickel-Phosphorus coating onto a desired substrate. This solution differs from other metal finishing processes because it does not require an electricity source to coat the part.

As applied, Electroless Nickel coatings are uniform, lubricious, easily solderable and highly corrosion resistant (dependent upon the phosphorous content of the coating). They can be post hardened through baking to produce higher wear resistance than that of an as-plated condition. This combination makes the coating well suited for a wide variety of uses.

The frictional characteristics of EN coatings are excellent. Their phosphorus content provides a natural lubricity, which helps to minimize heat buildup and reduces scoring and galling and which can be very useful for applications such as plastic molding. The co-efficient of friction is one-half that of electroplated Watts nickel.