


AL FAIZAN METAL PRODUCTS COATING

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AL FAIZAN METAL PRODUCTS COATING LLC

A Reliable Associate for Metal Plating
keeping with your Demands

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About Us 1



We are the market leader in the plating and quality powder coating sectors, providing engineered solutions in surface finishing for various demanding industries, including the medical, power transmission/distribution, defense communications, and oil & gas markets. We offer decorative and practical solutions for a wide range of industries, from automotive to medical and dentistry plating finishes.

FMC offers surface finishing solutions, which combine nearly years of experience in metal finishing with an engineering focus. We are excited about the chance to work with our clients to extend their manufacturing services with the help of our finishing capabilities. We appreciate the opportunity to hear about your unique design problems and provide a metal finishing solution that will be delivered consistently and at a reasonable cost.

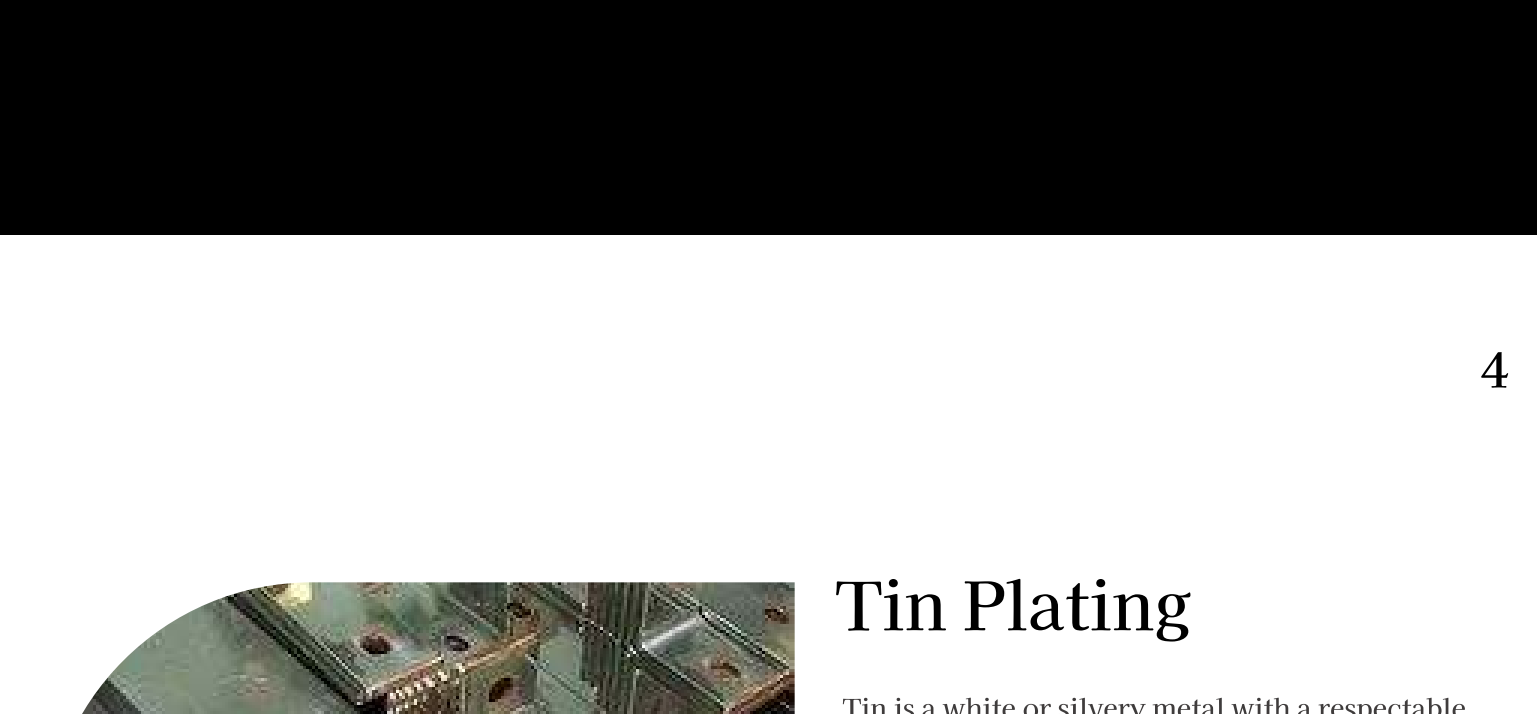
Our Director

Al Faizan Metal Products Coating LLC is owned and managed by Shahid Hameed. He has a rich and diverse experience in the electroplating field. He has an electrical chemical engineering degree from CSIR-CECRI (the current number 1 research institute in India). Having 10+ years of experience in the metal coating field has supported him in developing a smooth, sincere, and constructive relationship with executive colleagues, clients, suppliers, and individuals. As a Managing Director, he is responsible for the successful leadership and management of the organization based on the strategic goals set for the organization. He offers general management, manages day-to-day operations, and ensures a smoothly functioning, efficient organization.

Our Services 2

- A phone call from one of our business consultants
- A cost estimate of your project based upon your submission
- An in-person meeting to discuss the finer details if necessary
- 100% privacy guaranteed, your details are safe and protected

- Gold Plating
- Silver Plating
- Powder Coating
- Tin Plating
- Nickel Plating
- Chrome Plating
- Zinc Plating
- Copper Plating
- Anodizing
- Passivation
- Conversion Coating
- Electroless Nickel Plating



Product Catalog 3

Gold Plating



The application of a thin gold coating to another object's surface is known as gold electroplating. Gold is more expensive than many other plating materials, but its many better advantages frequently surpass this cost. Gold is durable and does not oxidize or undergo chemical reactions under normal circumstances. Because of this, gold plating is a superb option for many technical applications where design criteria include electrical conductivity, solderability, and corrosion resistance.

Standards Followed In FMC:
ASTM B 253 – Aluminum Surface Preparation
ASTM B 488 – Electro-deposited Coatings of Gold

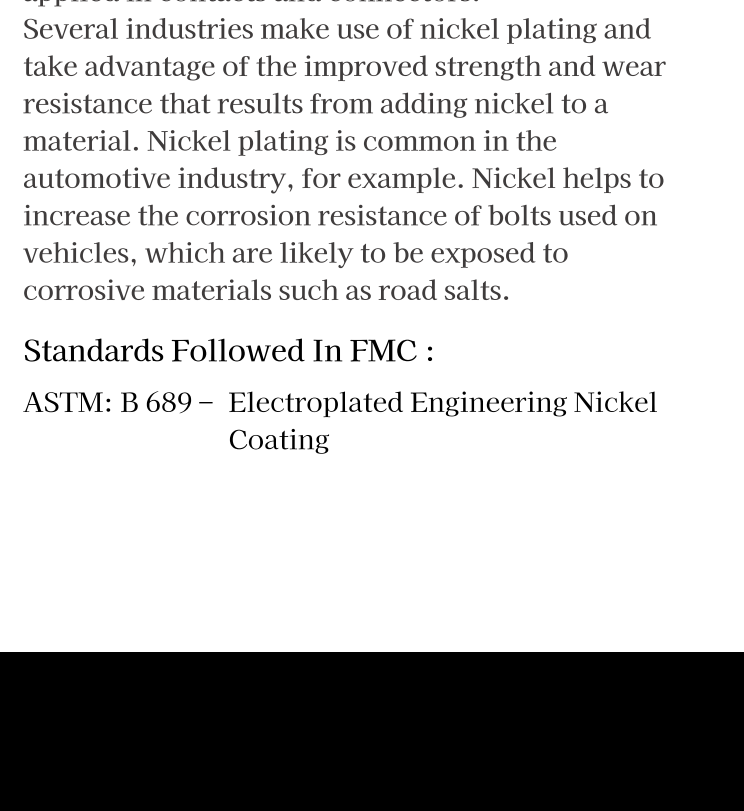
Silver Plating

With a dazzling white brilliance, silver is a very malleable metal. Due to its high electrical conductivity, silver is frequently used in semiconductors and electronics. Silver is essential for light and heavy-current engineering because it has the highest electrical conductivity of any metal. Silver is an economically cheaper metal plating that may be used than other precious metals. Silver can be used in place of lubricants by engine manufacturers due to its lubricity and excellent temperature resistance.

Standards Followed In FMC:
ASTM B500 – Electrodeposited Coatings of Silver for Engineering Use



Tin Plating



Tin is a white or silvery metal with a respectable level of corrosion resistance. Tin plating is the technique of using an electrical current to apply a layer of solderable tin on a material's surface. Materials including steel, stainless steel, copper, and copper alloys can all have tin plating. It may be incredibly economical because tin is significantly more affordable and widely accessible than precious metals like gold, platinum, or palladium. It is a typical coating for equipment used in the food processing industry due to its non-toxic qualities. Because of its excellent solderability and low melting point, tin plating is used in various industries, including the aerospace and automotive sectors.

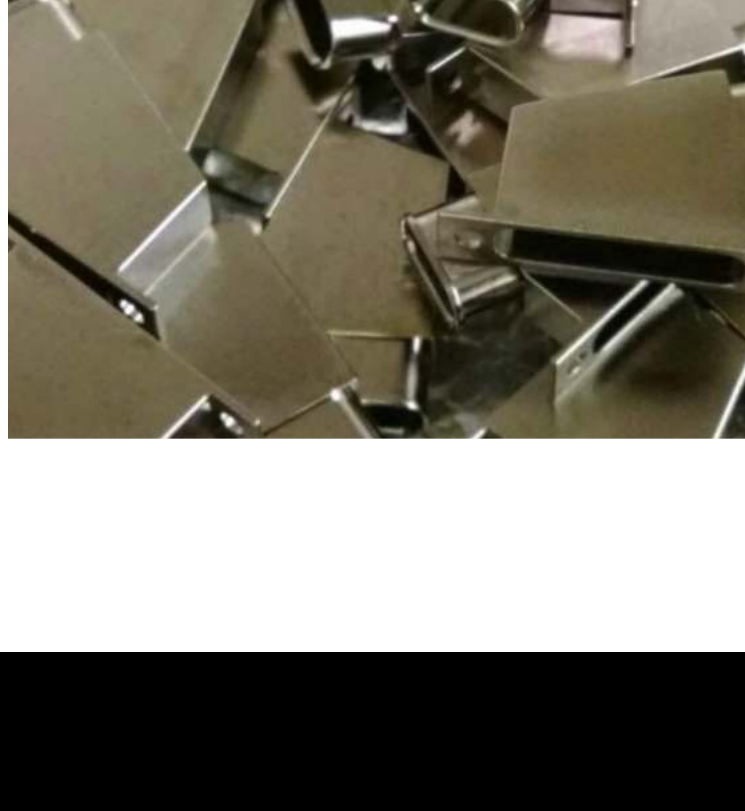
Standards Followed In FMC:
ASTM B545 – Electrodeposited Coatings of Tin

Nickel Plating

At FMC we do bright nickel plating – it is widely used for decorative and engineering applications. Deposits are mirror bright and have a smooth finish as well as excellent corrosion resistance. It is commonly used as an intermediate deposit and is applied in contact with copper.

Several industries make use of nickel plating and take advantage of the improved strength and wear resistance that results from adding nickel to a material. Nickel plating is common in the automotive industry. For example, Nickel helps to increase the corrosion resistance of bolts used on vehicles, which are likely to be exposed to corrosive materials such as road salts.

Standards Followed In FMC:
ASTM B 689 – Electroplated Engineering Nickel Coating



Powder Coating



Powder coating, a dry finishing method, has grown incredibly popular since its introduction in North America. The powder is used on various items for about 15% of the market for industrial finishing. For a high quality, long-lasting finish, more and more businesses specify powder coatings, which enables increased production, better efficiency, and easier environmental compliance. Powder coatings are used as a protective and ornamental finishes and come in an infinite variety of colors and textures. Additionally, thanks to technological improvements, they now offer excellent performance characteristics.

Chrome Plating

For several metal finishing purposes, chrome plating remains the preferred coating. Despite rivalry from other finishes, including organic coatings and vapor deposition, demand for chrome's bright and lustrous appearance is still rising. Chromium is frequently used for decorative and hard-chrome plating in the metal finishing industry. Because chrome plating offers a variety of surface qualities, including satin, diamond cut, hairline, split, wheel, semi bright satin, and pearl pattern finishes, in addition to mirror finishes, each type of finish is used for the appropriate applications.

Standards Followed In FMC:
ASTM B600 – Electrodeposited Engineering Chromium Coatings on Ferrous Substrates



Zinc Plating



In zinc plating, a thin zinc deposit is applied to a base metal. In various industries, corrosion can be an issue where the coating forms a sacrificial layer upon the metal that generally corrodes first. It means the original metal is protected and the zinc layer gets eroded and replaced when needed. Bright zinc plating can be a multi-step process that requires cleaning base metals with water washes and acids and then immersing the components in zinc solution. It leaves a thin layer of zinc over the metal, giving it a bright finish. During this step, the plated metal is passivated into a chromate solution, adding protection and color. Plus, the top coat is washed for great resilience. At FMC, we utilize a heat treatment process called electrochroming that prevents high-tensile steel from causing hydrogen embrittlement.

Standards Followed In FMC:
ASTM B563 – Electrodeposited Coatings of Zinc on Iron and Steel

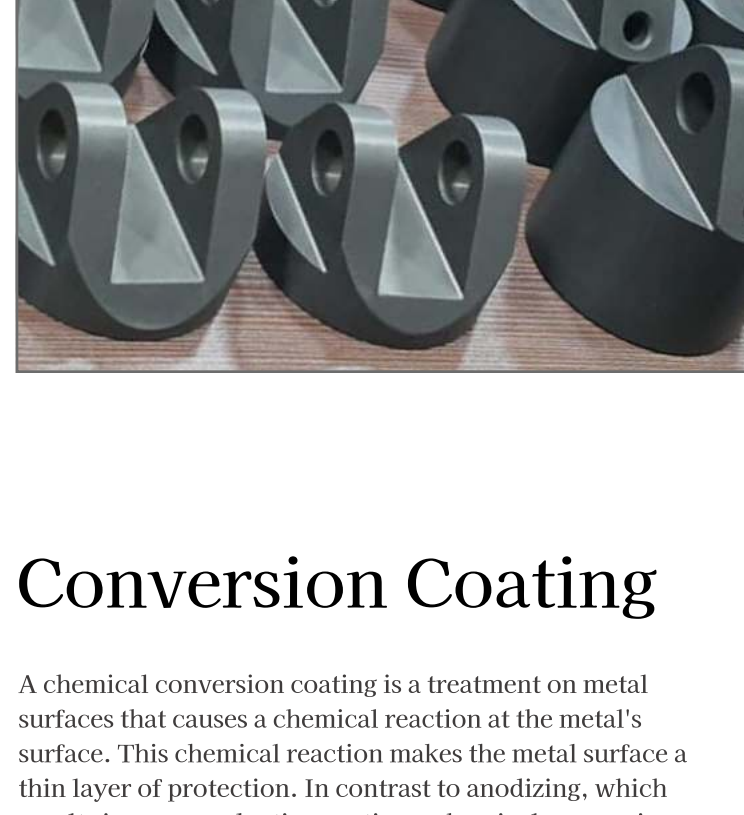
Copper Plating

The metallic element, copper, comes in red-orange with malleability, high electrical conductivity, and corrosion resistance. All these characteristics make copper an excellent choice for coating components in various industries, from automotive and aerospace to electronics and telecommunications. If you're looking for a top-notch company that provides copper coating services with shortest lead times, lower costs, and produces superior quality products, FMC can help. At FMC, we provide copper plating and electroplating services to suit your needs. We can apply a copper coating of different thicknesses to product types and their base materials.

Standards Followed In FMC:
ASTM B 734 – Electrodeposited Copper for Engineering Use



Anodizing




FMC anodizing can make sure that a part will resist wear and tear and corrosion from prolonged use, as it will result in a thicker, more durable surface. Some common types of anodizing are Type I Chromic Acid Anodize, Type II Sulfuric Acid Anodize, and Type III Hard-coat. The anodic oxide structure of the aluminum substrate is a wholly composed of aluminum oxide. The aluminum oxide is used to apply the plating or painting to the surface, but it'll be completely integrated with the aluminum substrate, so it doesn't peel or chip. They have a porous structure, allowing secondary processes like coloring and coloring.

Standards Followed In FMC:
ASTM B 322 – Deposition prior to Anodizing
ASTM B 590 – Anodic Oxide Coatings on Aluminum

Conversion Coating

A chemical conversion coating is a treatment on metal surface that causes a chemical reaction at the metal's surface. This chemical reaction makes the metal surface a thin layer of protection. In contrast to anodizing, which results in non-conductive coating, chemical conversion coating also maintains electrical conductivity. Chemical conversion coatings are more environmentally produced than anodizing because they don't require electricity. Depending on your choice, it can be either colored or transparent. Chromating and other chemical conversion further forms for a chemical conversion coating. Due to various quality and benefits over other coating coating techniques, the chemical conversion coating technology has been widely used to cover ordinary metallic materials to prevent corrosion.

Standards Followed In FMC:
MIL-DTL 5541 – Chemical Conversion Coatings on Aluminum and Aluminum Alloys



Electroless Nickel Plating



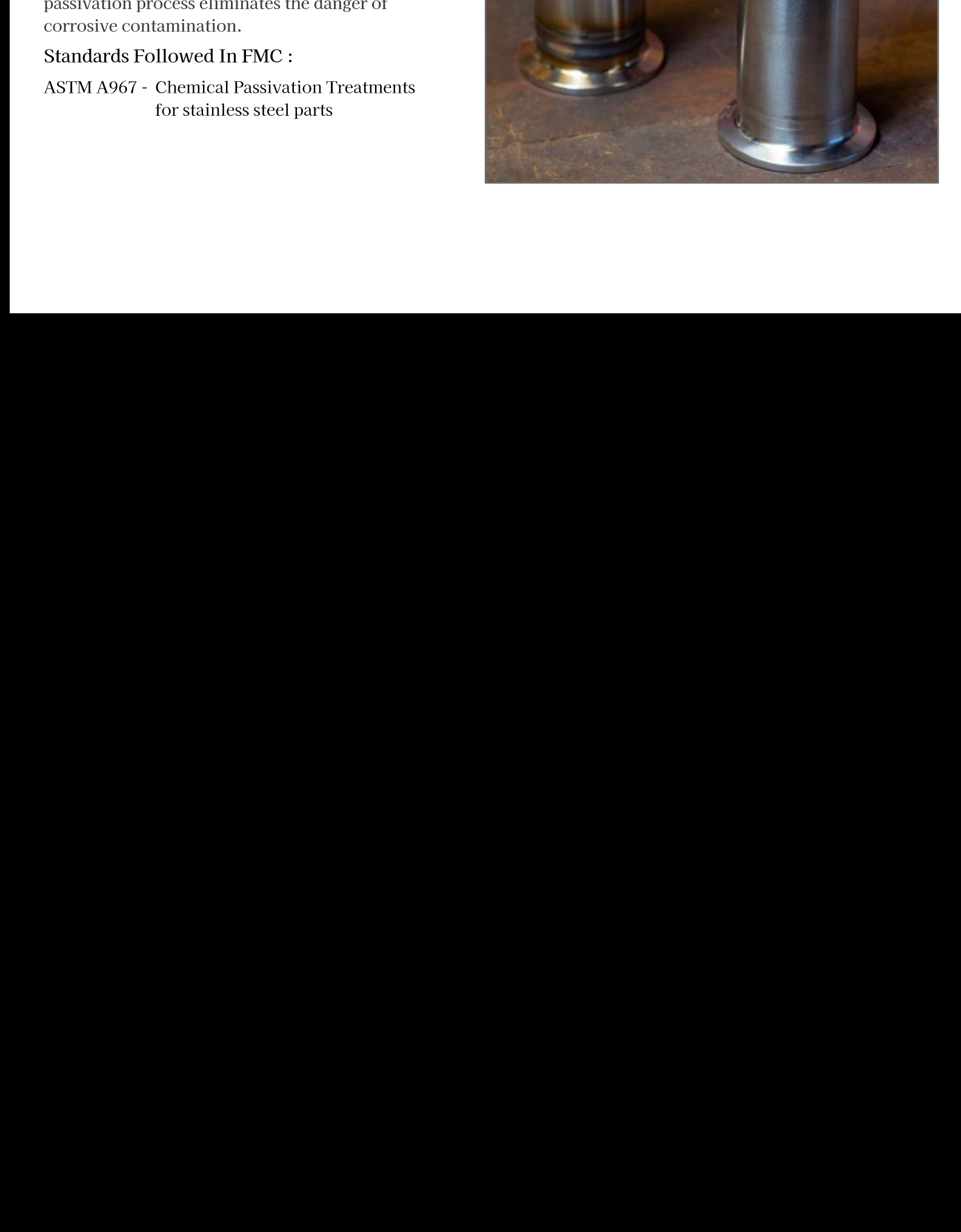
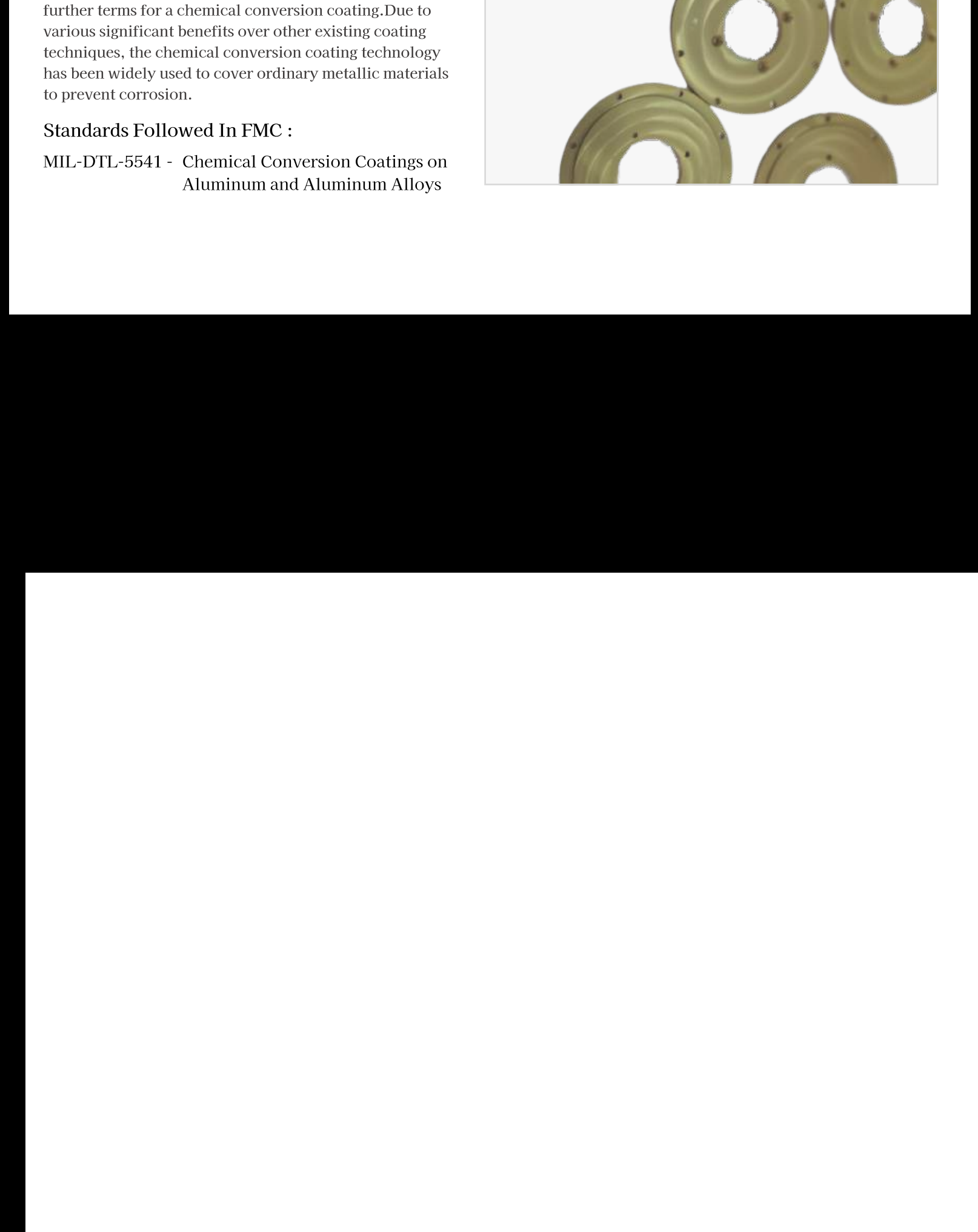
The electroless nickel plating adds to a metal surface without an electrochemical reaction. This process doesn't use an outside source of electricity. Instead, electroless nickel plating uses a chemical bath for depositing a phosphorous or nickel layer onto the metallic surface. The surface coated electroless nickel is used on non-conductive surfaces that allow the plating of base materials. This electroless nickel plating process improves the object's resistance and provides a uniform coating for high-pressure parts that are used in aerospace and ferrous surfaces. At FMC, we use electroless nickel plating that is compliant with MIL-C 26052E, ASTM B133, AMS 2404E, AMS 2404H, and other industry standards.

Standards Followed In FMC:
ASTM B133 – Autocatalytic (Electroless) Nickel-Phosphorus Coatings on Metal

Passivation

Parts made of stainless steel can chemically be treated to give passivation, which offers resistance to rusting, oxidation and mild chemical assaults. From then that can be produced during finishing operations like milling, tapping, cutting, polishing, etc., is removed from the surface of the parts by the passivation process. By returning the relative qualities of machined components to the state of their particular alloy's raw material, the passivation process eliminates the danger of corrosive contamination.

Standards Followed In FMC:
ASTM A967 – Chemical Passivation Treatments for Stainless Steel Parts

THANK YOU

