

Elcoats & Allied Industries Provides Aluminium Anodizing, Chromatising Coating, Electroless Nickel Plating in India



Karnataka, Bengaluru, Jan 21, 2021 (Issuewire.com) - **Elcoats & Allied Industries** has extensive knowledge in the field of Anodising, Hard Anodising, Color Anodizing, Chromatising, and Electroless Nickel (ENP) for the last 2-½ decades; Quality and high production finishing with a special approach that meets the individual needs of our customers.

Our expertise will relieve our customers of any concerns in choosing the right vendor. Elcoats can cater to various categories including automotive, military, culinary, medical equipment, and more.

Anodizing: Anodizing is an electro-chemical process that can transform an ordinary metal surface into an ornamental and durable surface by replacing the anodic-oxide in the process with a corrosion-resistant property. [Aluminium Anodizing](#) effectively combines science with nature to create the finest material finish.

Clear Chromatising is an alternative to [Yellow Chromatisation](#) that is chrome-free, providing a clear iridescent film of low contact resistance. The corrosion act of our aluminum chromate conversion coating is constant with traditional hexavalent processes and is largely a function of the specific alloy applied to the aluminum chromate conversion coating. Aluminum chromate conversion coating improves corrosion treatment of heat treatment and raw aluminum alloys, providing an excellent base for subsequent painting or powder coating services. We provide according to Mill and ASTM standards.

Aluminum oxide blasting is the process of lubricating and cleaning a hard surface by forcing solid particles onto that surface at high speed using compressed air. The [aluminum oxide blasting](#) method consists of four basic mechanisms: air source, sandblasting cabinet, dust collector, and blasting media. The air source is regularly bottle gas or an air compressor. The sandblasting cabinet holds the perishable item, while the dust collector removes the dust from the cabinet. The material used in sandblasting, whether sand or not, is called blast media.

Aluminum Bright Finishing: Aluminum components are chemically treated to give extra shine. Anodizing is usually a dull/matte finish, and we do additional chemical treatment to give a shiny finish.

Aluminum Bright Finishing is one of the most efficient and durable metals. It can be used in practically any weather condition, has all the necessary features for a good thermal insulator, saves energy, and is completely recycled.

Laser Engraving Service: **Laser engraving** (or laser etching) is a subtractive manufacturing method, which uses a laser beam to change the surface of an object. This process is mostly used to make images on the material, which can be seen at eye level. To do this, the laser creates high heat that will steam the case, thus exposing the cavities that will form the final image. It is using a laser to mark the surface of an object.

Electroless Nickel Plating is also known as **ENP**. It is a chemical process that deposits a nickel-phosphorus layer on components without the use of electric current during the process. The main advantage of this process is that it provides surface coating during bathing on all components. So there is no irregular coating problem from one component to another. Further chemistry has proved that the hardness achieved in the thickness of the coating is a minimum of 350 HV to 1000 HV (based on the base alloy).

The electrolysis nickel process has several advantages over electrolytic electricity:

- Virtually unlimited throwing power
- Little or no extra deposit at high points
- Deposits of excellent physical and chemical properties
- Low hydrogen charge (hydrogen emission)
- The efficiency of coat surfaces would be difficult or impossible by electroplating.

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