# ELETROPLATING: MODERN-DAY ALCHEMY

**Benefits of electroplating**

Definition of alchemy: magically changing common chemical elements into rare and valuable ones

So while there is no such thing as alchemy, electroplating is possibly the next best real thing.

Definition of electroplating: depositing a thin layer of one metal onto another by means of electro-deposition in an electrolytic cell.

The basic idea is to use electricity to coat a relatively mundane metal with a thin layer of another, more precious metal. Electroplating has so many real-world applications that it is invaluable to modern society. Sometimes, it is impractical or impossible to manufacture a product out of a metal with certain properties. With electroplating, however, one is able to coat the surface of an object with a rare or otherwise impractical metal in order to bestow the properties of that metal onto said object

The purpose being: value-adding in every sense;

1. to make metals appear more valuable
2. to protect metal increasing its durability, preventing oxidising, rust, tarnishing & corrosion
3. to improve particular properties & performance: reflectivity, conductivity
4. to make a metal more beautiful
5. to match existing finishes already existing on site or finishes of imported products
6. to match varying substrates
7. to achieve a design concept
8. to change existing finish of a product, fitting, fixture or metal component
9. to give new life to older/ unattractive metal object

Examples