We do about 550,000 air cleaner assembly parts a year so wear on the molds is a real concern. A black diamond coating that we tried didn’t adhere well. We restripped and tried an EN composite, but after six months it was gone. Then we applied the [TwinClad] XT. It’s lasted through a million parts. Three times longer than regular EN … and holds up in the corners where a part can grab … so we have no hang-up problems.

Brad Carlbom, Project Engineer

Unique Performance Characteristics

Uniformity
Twin City Plating chemistry and process control guarantee accuracy to tolerances of 0.0001 inch.

Wear Resistance
Superior hardness and pore-free deposit qualities increase resistance to abrasion and adhesive wear for longer coating life.

Specialized Formulation
The unique coating provides significantly better wear and release properties without compromising hardness which makes TwinClad® XT ideal in the most challenging applications from glass-filled resins to silicone rubber.

Environment
Sensitive to environmental concerns, Electroless Nickel and the associated composites help to minimize waste and the impact on the environment.

Maintenance
Can be easily stripped and replated to replenish wear and release properties and maintain optimum production levels.

Quick Release
The lubricious coating provides an exceptionally low coefficient of friction for the high productivity of snag-free production and long-running wear.

Corrosion Resistance
An undercoat of High Phosphorus EN will improve the corrosion resistance capabilities of the TwinClad® XT - protecting the base material.

Surface finishing and value added solutions through innovation and continuous improvement.
Electroless Nickel Composites

Electroless Nickel (EN) composites have been used for many different purposes for a number of years. Given EN’s amorphous structure, polymers and other non-conducting materials can be co-deposited providing capabilities above and beyond traditional EN. Teflon, Carbide, Diamond, Boron-Nitride – can all be used to improve the characteristics of the coating – Hardness, Lubricity, Corrosion Resistance, Abrasion Resistance, etc.

Twin City Plating (TCP) has been working closely with its suppliers over the years to develop different composite EN coatings to provide customers with alternatives – helping to reduce costs, and increase their capabilities. Give us a call and we can discuss the specifics of the different options, to help find the best solution for your application.