

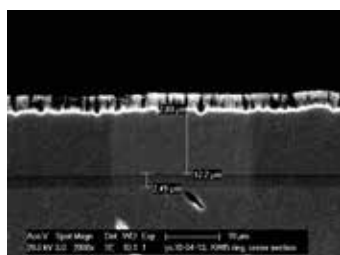


## Kanigen® black electroless nickel

*Black Electroless Nickel consists of an electroless kanigen® nickel plating, with a second electroless nickel plating layer, with specific wt% P, on top. That top layer is then passivated until a uniform mat black colour is obtained and meets specific technical and optical need.*

### Mat black electroless nickel deposit

This layer, perfectly black and mat, without iridizations, combined with a high phosphorus electroless nickel coating, allows us to serve markets in search of a visual aspect combined with specific chemical, mechanical and optic (absorption and emission) properties.



- 2 à 3 µm : black passivated deposit
- 5 à 8 µm : low phosphorus electroless nickel
- Min. 2 µm : Kanigen® electroless nickel
- Substrate



The corrosion resistance is determined by the high phosphorus electroless nickel layer, whose thickness is determined depending on the needs of the customer.

### Properties of black electroless nickel

- Colour: mat black (22 on L.A.B. scale), homogeneous and uniform, repeatable without iridizations
- Hard (8H) with limited abrasion and scratch resistance
- UV stable
- Good UV absorption and IR emission
- Good corrosion resistance

### Applications

- Military telecom connectors
- Visible parts of electro-mechanical components
- Refrigeration systems
- Direct integration into weapon systems
- Laser and optical applications
- Vacuum applications

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