

PHYSICAL VAPOR DEPOSITION PVD

SECONDARY FINISH

Physical Vapor Deposition (PVD) is a highly controlled process that utilizes a vacuum chamber to create and deposit metallic vapor onto a target surface. Using various titanium nitride, carbide and dioxide compounds, a vast range of brilliant metallic color can be created and applied to stainless steel wire mesh. Banker Wire mesh can be enhanced with a true, lasting architectural finish in colors like Chocolate, Champagne, Gunmetal, Rose Gold, Cobalt Blue, Royal Gold and many more.

Benefits include:

- Wear and scratch resistance.
- Corrosion resistance.
- Ideal for a post manufacturing application as it can be applied after fabrication.
- Can be 100% recycled as stainless steel.
- Wide range of color options with custom matches possible.
- Color will never tarnish or patina.

Appropriate wire mesh base alloys:



Corrosion resistance: The process of adding the various compounds onto the wire mesh for color does not degrade the corrosion resistance of the base alloy but rather enhances it. The most common stainless steel grades suitable for this process are T304 and T316 stainless steel. Choosing the right grade of stainless steel is important. Typically we recommend T304 stainless for interior applications and T316 for exterior. All of the Banker Wire mesh patterns are available in these alloys and therefore can be colored in any of the available PVD finishes.

Special Considerations: The pricing is highly affected by the size and number of the pieces and how efficiently the chamber can be loaded. The PVD process can be applied to one side or both. When designing for applications with only one side of the mesh is visible, the job could be simplified by specifying which side of the mesh is to be colorized. The wire mesh can be laser cut and formed post process without affecting the color. Welds should be hidden as much as possible. PVD is a translucent color, therefore welds will be colored through the process but may take on a slightly different shade than the rest of the assembly.

DS-1 WITH PVD SECONDARY FINISH

