

# DECORATIVE PVD

## SECONDARY FINISH

Decorative PVD (Physical Vapor Deposition) is a thin film deposition process where a metallic solid is vaporized in a vacuum chamber and deposited onto a target surface as a coating. Using various metal compounds, a vast range of brilliant metallic color can be created and applied to stainless steel wire mesh.

Benefits include:

- Can be 100% recycled as stainless steel.
- Wide range of color options with custom matches possible.
- Color is stable and resistant to UV fade.

Appropriate wire mesh base alloys:



**Corrosion resistance:** The process of adding the various metal compounds onto the wire mesh for color does not degrade or enhance the corrosion resistance of the base alloy. 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 Decorative 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 Decorative 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 colored. The wire mesh can be laser cut and formed post process without affecting the color. Welds should be hidden as much as possible. Decorative 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.

It should be noted that vapor particulate will be present on the wire mesh following the complete Decorative PVD process. A final cleaning of the material should be considered prior to installation.

### DS-1 WITH DECORATIVE PVD SECONDARY FINISH

