

WHAT IS DECORATIVE PVD?

Decorative PVD is a coating technology to deposit thin films with controlled thickness between 0.8 and 1.5 micron, deposited in a high vacuum chamber.

An eco-friendly high-tech coating with deposition of titanium, zirconium, chromium and among other materials.

These decorative hard-coating provide a scratch resistance, protection against corrosion, increase durability and a superior end-product, keeping the original product finish: matt, shiny, brushed or another.

STANDARD COLORS



SUBSTRATE MATERIALS

- Stainless steel, carbon steel,
- Brass, aluminium, zamak, ABS plastic and ceramic*

CONSTRAINTS

- Substrate materials for PVD coating
- Dimensions: Ø1100 x h1100mm

CHARACTERIZATION

- Temperatures controlled between 190 to 300 °C, not exceeding the supported limits of the substrate materials;
- ABS Plastic deposition is performed at low temperature (about 80 °C);
- High hardness (above 2000HV) six times higher than the typical hardness of the steel;
- Improve scratch resistance;
- Increase the operating lifetime of coated products;
- Chemically inert and non-toxic;
- Anallergic: protection of direct human contact with the metal substrate, preventing allergic reactions;
- Compatibility with food industry and surgical instruments;
- Environmentally-friendly coatings: non-polluting process;
- Reduces coefficient of friction;
- Superior adhesion and wear resistance than chromium plated or other electroplated/galvanic materials;
- UV resistance;
- Diversity and color reproducibility: suitable for serial production;
- Flexibility for different component shapes, sizes and quantities;
- Available on any desire surface finishing: polished, matt, satin or brushed;
- Laser engraving is possible before or after the coating.

* Better hardness and adhesion if Ni-Cr plated prior to PVD coating

** Surfaces with slits or pores will not allow correct adhesion of PVD; deep scratches affect the coating uniformity.

