



## TITANIUM AND ZIRCONIUM NITRIDES

### Description

PVD coatings are thin layer coatings of ceramic nature applied by medium or very low vacuum conditions

PVD coating technology is characterized for not producing pollution to the environment and offers a wide range of compositions (TiN, ZrN, ZrCN, Cr, CrN, etc), and layers that can provide color, hardness, wear resistance and other properties.

PVD decorative coatings are applied for more than 20 years over personal accessories like glasses, watches and more recently over taps, door handles, ceramic tiles and glass objects.



### General properties

- Better wear resistance than electroplated coatings and paints
- High hardness (2000-3000 HV).
- UV resistant, no discoloration, no loss of gloss through time
- Colour not faded since oxidation is produced at temperatures above 400 °C.
- Corrosion resistant (>1000 h in salt spray test – ISO 9227), but they do not provide barrier effect corrosion protection since they form a very thin layer
- Layer thickness: 0,5 up to 1 microns.
- No levelling effect.
- Resistant to the most typical cleaning agents.
- Resistant to HCl, acetic acid and citric acid in low concentration.
- Resistance to salts such as sodium hypochlorite

### Colours:

 **Gold**

 **Black**

 **Blue**

 **Purple**

 **Copper**



### Uses

- Decorative tiles made of ceramic or glass (tiles and baseboards).
- Household utensils in stainless steel or brass or Zamak previously chromed.
- Spigots and valves.
- Watches and bijouterie.
- Elements of passive solar energy.
- Parts with a high temperature load.

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