

COLOR COATING SHEET

COMMERCIAL
BROCHURE

PHYSICAL VAPOR DEPOSITION COATING

PVD ion plating process has many advantages :

- ◆ The bonding force between the vacuum coating film layer and the surface of the products is stronger, which can support the post-cutting, pressing and planing processes;
- ◆ The film has high hardness, stable performance, better wear resistance and corrosion resistance than traditional chemical plating;
- ◆ Vacuum coating has a wide range of film types, more colors and more beautiful, excellent stainless steel coating effect, longer film life;
- ◆ The metal ion has good diffraction performance and can be plated with various complex and changeable products;

STAINLESS STEEL PVD COLOR COATING

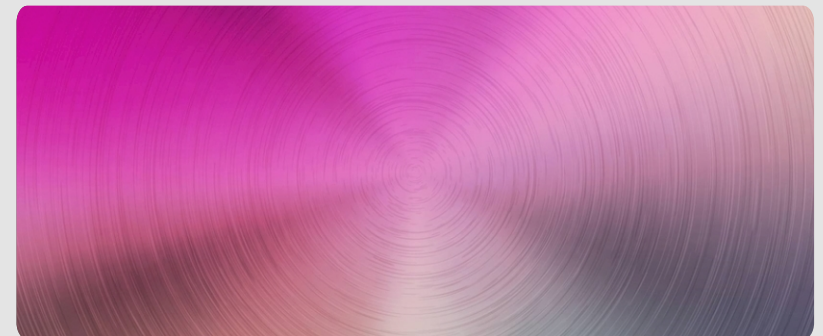
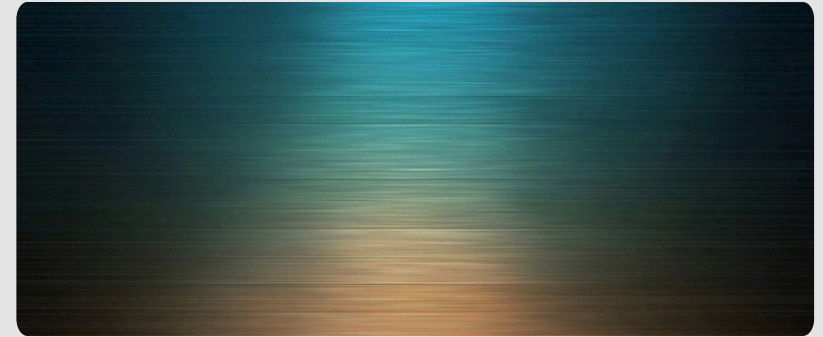
Adopt advanced environmental protection vacuum coating technology (PVD) to coat the surface of stainless steel with a layer of wear-resistant, corrosion-resistant, high-temperature resistant and dense pure metals or metal compounds with different colors. All kinds of colorful stainless steel products processed by Inoxfurt are rich and luxurious in appearance, colorful and durable. The PVD film layer can completely maintain the original surface texture, gloss and strength of the substrate, and can be subjected to subsequent mechanical processing such as shearing, bending, bending, and cutting. It is an ideal new environmentally friendly decorative material.

Machinable stainless steel surface

SURFACE TREATMENT

Professional Supplier Of Stainless Steel

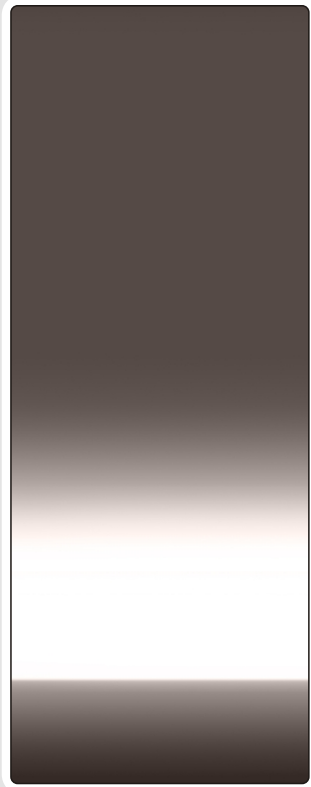
Mirror	Brushed/Hairline	Bead Blasted	Vibration
8K Mirror	Embossed	Etched	PVD Color Coating
Antique	Anti-Finger Print	2B	Customized



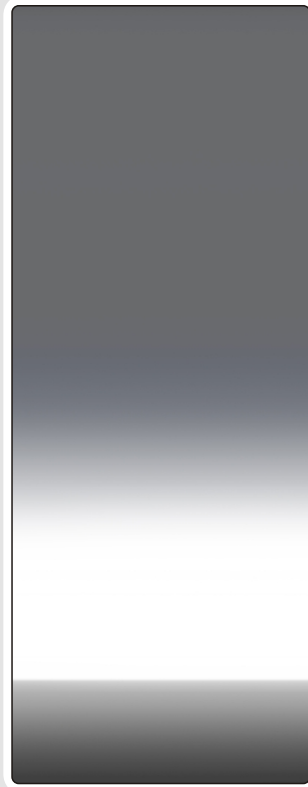
COLORS AND COMMON SURFACES - MIRROR



IF-2887
Mirror Black



IF-125
Mirror Light Brown



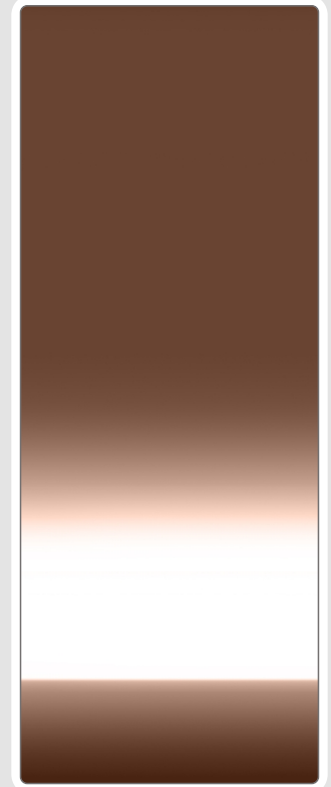
IF-3331
Mirror Silver



IF-2881
Mirror Ti-Gold



IF-3143
Mirror champagne Gold



IF-2884
Mirror Rose Gold

COLORS AND COMMON SURFACES - HAIRLINE/BRUSHED



IF-2888
Hairline Black



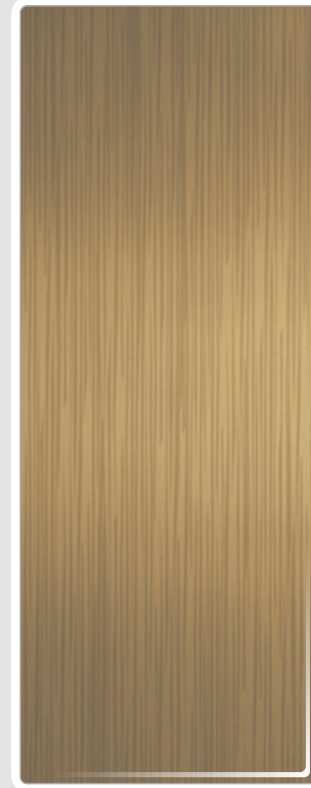
IF-111
Rough Hairline Brown



IF-2033
Hairline Coffee Black



IF-2882
Hairline Ti-Glod



IF-3144
Hairline champagne Gold



IF-2885
Hairline Rose Gold

COLORS AND COMMON SURFACES - BEAD BLASTED



IF-3019
Bead Blasted Black



IF-122
Bead Blasted Light Brown



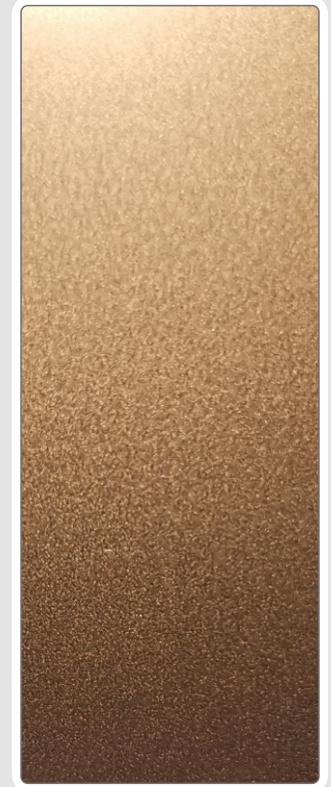
IF-123
Bead Blasted Silver



IF-3005
Bead Blasted Ti-Gold

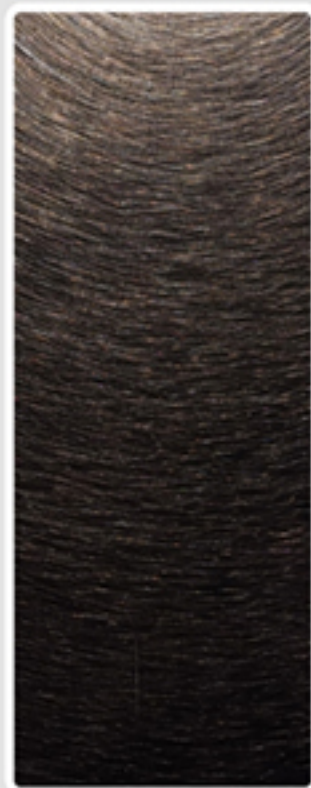


IF-3146
Bead Blasted champagne Gold



IF-3007
Bead Blasted Rose Gold

COLORS AND COMMON SURFACES - VIBRATION



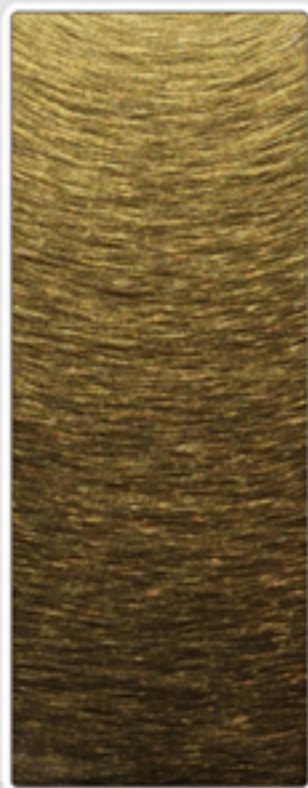
IF-3020
Vibration Black



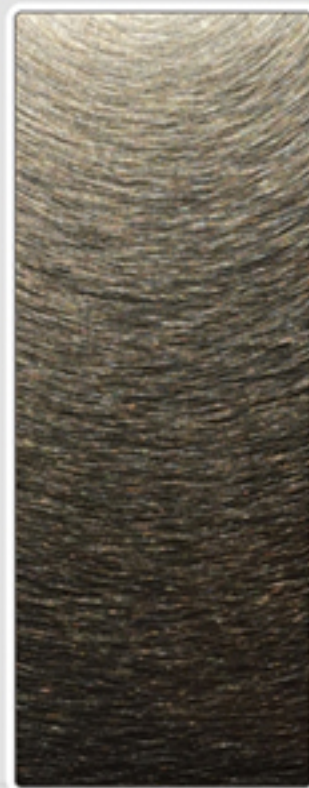
IF-122
Vibration Light Brown



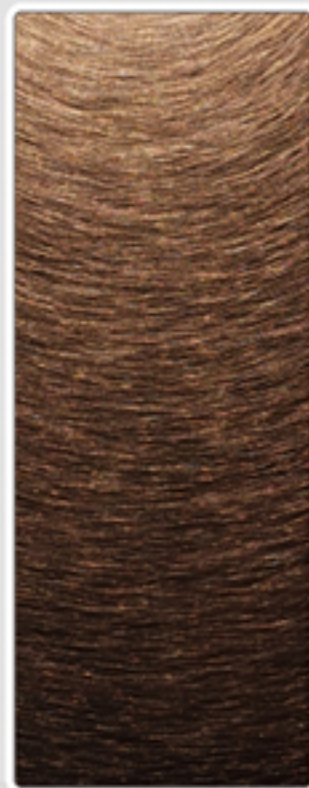
IF-123
Vibration Silver



IF-3005
Vibration Ti-Gold

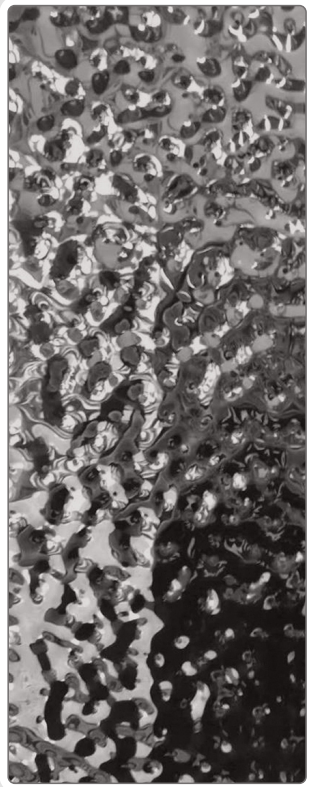


IF-3146
Vibration champagne Gold

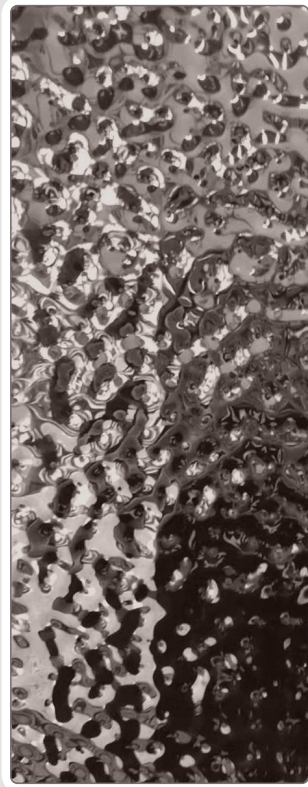


IF-3007
Vibration Rose Gold

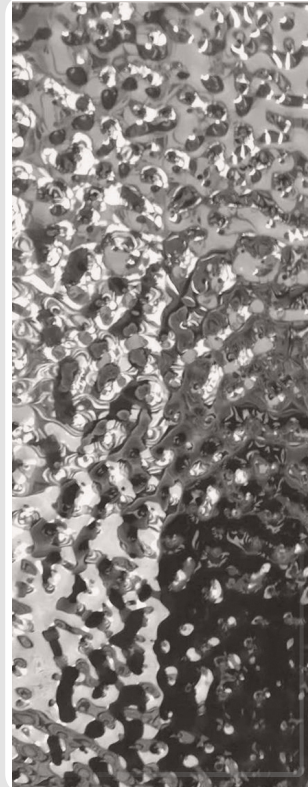
COLORS AND COMMON SURFACES - WATER RIPPLE



IF-101
Water Ripple Black



IF-102
Water Ripple Light Brown



IF-103
Water Ripple Silver



IF-104
Water Ripple Ti-Gold

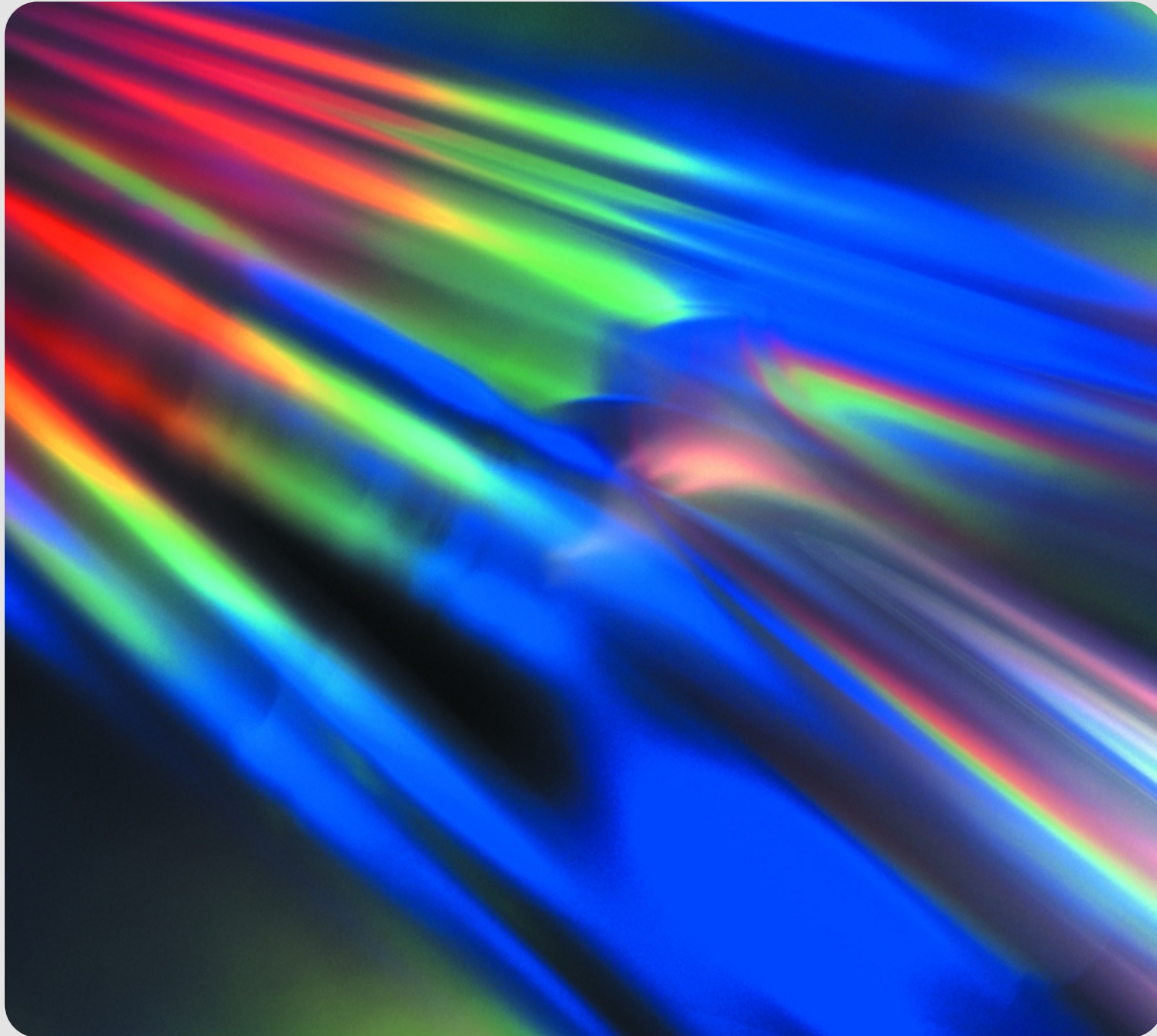


IF-105
Water Ripple champagne Gold



IF-106
Water Ripple Rose Gold

PHYSICAL VAPOR DEPOSITION COATING



Maximum processing size

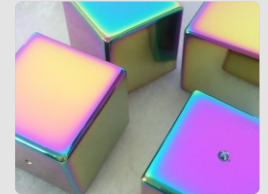
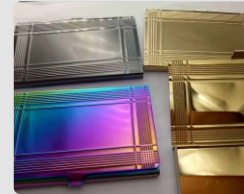
Sheet: 3mm*1500mm*6000mm

Products: diameter 1800mm, length 6000mm

PVD film

Ti, TiN, TiCN, TiC, TiO, TiAlN, AlN, Zr, ZrN, Cr, CrN, CrC, SiO.

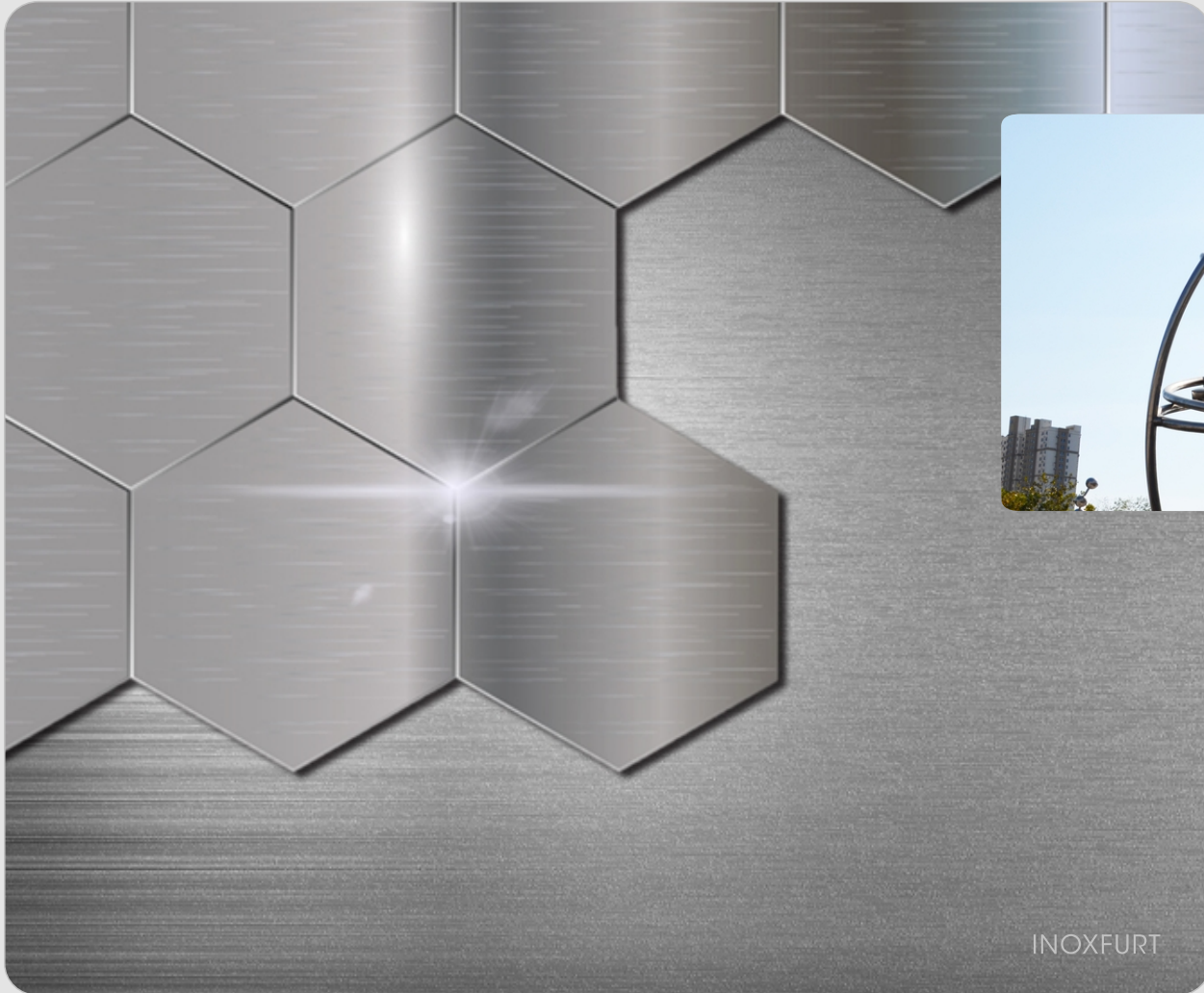
Film thickness: 0.1-0.6 microns



The choice of substrate:

The vacuum plating of PVD film is helpful to the improvement of the anti-corrosion performance of the substrate surface, but it cannot completely prevent the substrate from being corroded. Therefore, the good anti-corrosion performance of the substrate itself is the key to the long-term maintenance of the PVD film. Stainless steel with compact surface and excellent anti-corrosion performance, electroplated chromium parts, titanium and titanium alloys can be directly PVD treated. Copper, zinc, iron, and their alloys with general corrosion resistance cannot be PVD directly. Electroless chromium or nickel plating is required to be PVD. Some aluminum and aluminum alloys can be directly vacuum plated, but after plating, an anti-fingerprint sealing treatment should be done to prevent surface oxidation.

PHYSICAL VAPOR DEPOSITION COATING



Matters needing attention before coating:



All products to be coated must ensure that the surface is absolutely cleaned before coating, and dirt, oil, dust, glue, rusty spots, welding slag, etc. must be completely removed.

The polishing wax, salt, rosin, sand, wood, glue, plastic and other substances hidden in the stainless steel complex products must be completely removed before entering the vacuum chamber.

The welding of stainless steel components is recommended to use argon arc welding technology, which is resistant to high temperatures and strong; soldering is not resistant to high temperatures. The high temperature generated during the coating process will melt the tin and cause the components to fall apart.

PHYSICAL VAPOR DEPOSITION COATING

Matters needing attention after coating:

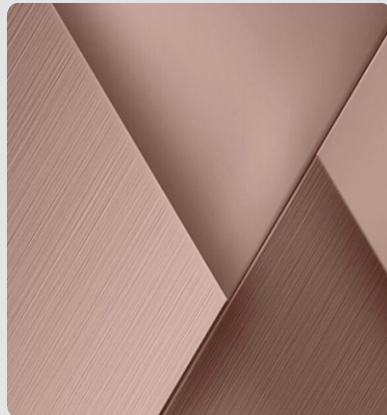
1. Precautions for maintenance of vacuum plating PVD film:

It is forbidden to use cleaning agents with strong acid, strong alkali, strong oxidizing substance, or strong decontamination ability, such as toilet cleaner, paint remover, metal cleaner, etc.

Do not use cleaning agents containing abrasive particles to clean. You can choose industrial alcohol, thinner water and talcum powder for cleaning;

Can not be exposed to harsh environments for a long time, such as high temperature and high humidity and other steam environments. Or long-term contact with corrosive liquids, such as swimming pools (containing fluorine), sea water (with high salt content).

2. Use of acrylic resin anti-fingerprint oil. More and more customers choose to spray a layer of transparent anti-fingerprint oil on stainless steel products

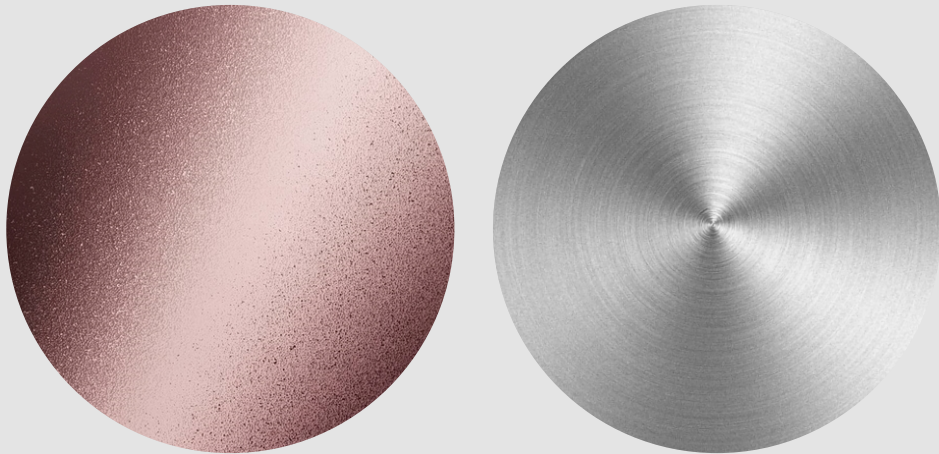


plated with color PVD film. The effect is obvious, which can greatly reduce fingerprints, the surface is easy to take care of, and it can also increase corrosion resistance. Sex, multiple benefits in one fell swoop. However, the disadvantage is the inconsistency of the color of the fuel injection and the non-fuel injection, which reduces the metal texture of the product to a certain extent. The resin itself is paint, the material is soft, easy to scratch, not resistant to ultraviolet aging, and the outdoor service life is relatively short. Therefore, it must be carefully considered before use.

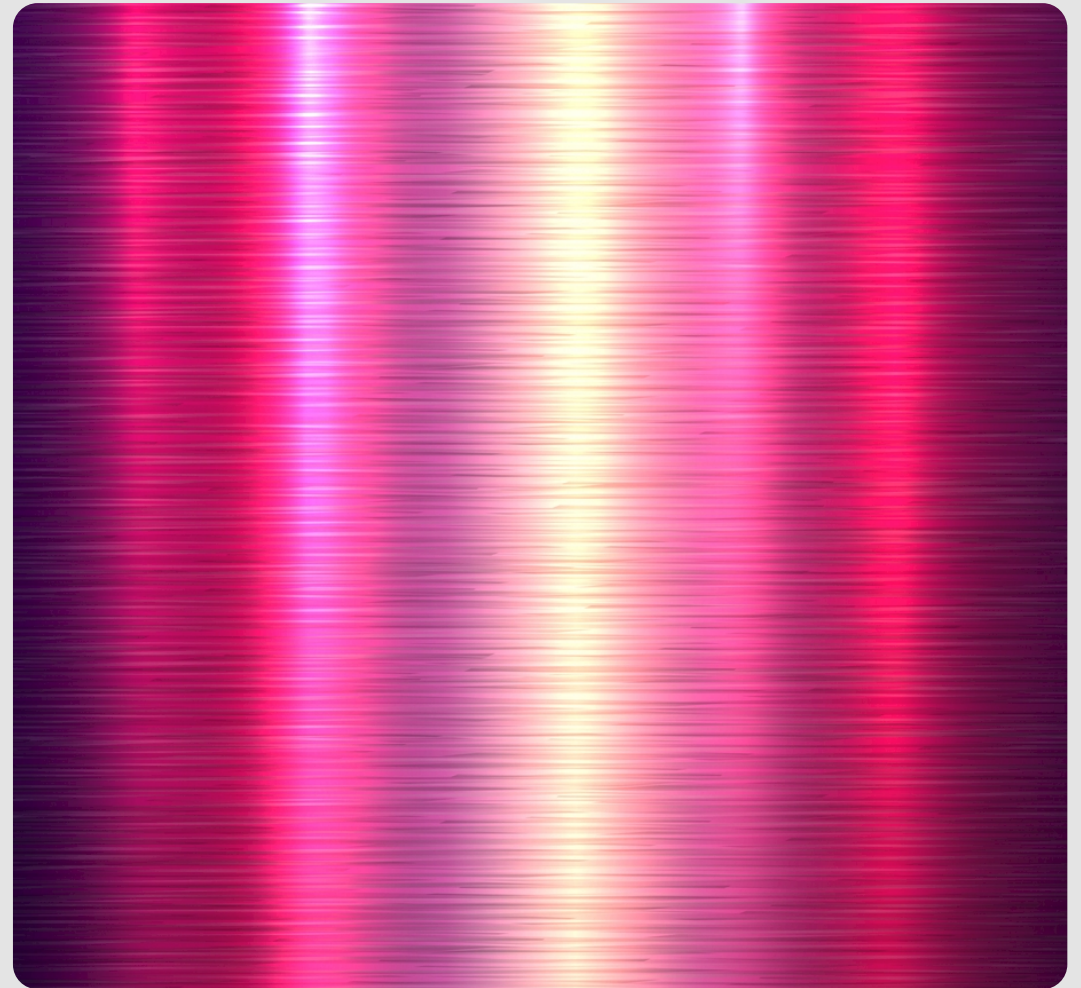
3. Follow-up processing problems. Because the PVD film layer has a very good bonding force with the substrate, it is not easy to fall off, and the product can be subjected to simple subsequent mechanical processing, such as shearing, bending, bending, and cutting. However, welding has a great influence on the PVD film, and the instant high temperature will cause the film to fall off and discolor. Therefore, the stainless steel products that need to be welded need to be plated. It is best to make the components before plating. PVD cannot be plated. The material of the membrane is processed to make the product.



Color deviation problem



The color difference of the vacuum ion plating color PVD film is a problem that customers and manufacturers must face and pay attention to at this stage. Due to the complexity of the PVD process equipment, there are many parameters that need to be controlled, each parameter may affect the color, and other factors such as the method of hanging the oven, the product material and the surface will also affect the consistency of the color. In addition, the color of the coated film will change slightly due to oxidation in the air for a long time; the observer will find that the color will change due to different light and angles. Therefore, in the face of possible color deviation problems, customers and manufacturers should communicate more and work together to solve them and find the best balance.





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