Precious metals plating

The synergy of beauty and performance

mks | Atotech

Our broad solutions portfolio

MKS' Atotech precious metals portfolio offers solutions for a variety of applications, and our processes provide exceptional results for a range of precious metals plating requirements.

Colored gold coatings

MKS' Atotech colored gold electrolytes are nickel-free, which makes them ideal for items requiring hypoallergenic plating solutions, such as custom jewelry, writing utensils or musical instruments.

Aurocolor 24: A neutral gold electrolyte, which deposits matt to bright, pure gold colored layers. Aurocolor 24 is easy to control and to maintain and offers a good throwing power.

Orolux® 800 C: A mildly alkaline gold process designed to provide a rose gold-copper alloy for the jewelry industry. Orolux® 800 C deposits are bright and ductile, even at high layer thicknesses of over 1 µm. This nickel-free process results in exceptional color and alloy stability.

White coatings

Pure palladium coatings are used for quality bathroom fittings, pens and custom jewelry, as an interlayer in eyeglass frames or in jewelry as a nickel substitute. This white silver has exceptional throwing power, and is particularly popular for plating e.g. hollowware, tableware and cutlery.

Pallacor® HT 288: A neutral electrolyte, designed for the application of bright, haze-free palladium layers with a thickness of up to 10 µm. Pallacor® HT 288 layers can be used for both decorative and technical end layers, and can replace nickel as an intermediate layer in multilayer systems.

Argalux®: MKS' Atotech silver process results in bright silver coatings for electronic and decorative applications. Argalux® 64 can achieve a hardness of up to 210 HV25 for durable, resistant layers.

Black & anthracite ruthenium coatings

Noble black and anthracite ruthenium finishes are increasingly popular and feature predominantly in quality bathroom fittings, mobile phone cases, custom jewelry and automotive interiors.

Ruthenoir: A strong acidic electrolyte that yields black anthracitic ruthenium layers. This high performing electrolyte is suitable for rack applications. The deposited layers offer excellent color stability and are also especially resistant to abrasion, due to their hardness values of about 800 HV.

Fascinating precious metals

Au

Superior throwing power
and wide operation window

Pd

High brightness and lowest
porosity up to 10 µm

Ag

Cyanide-free silver plating
directly on silver, brass & copper

A luxurious appearance doesn't always have to be expensive. Electroplating has become an affordable means of applying thin coatings of precious metals to most surfaces.

MKS' Atotech extensive range of precious metal colors allows designers to enhance everyday products with the attractive qualities of a special metal, unlocking nearly endless creative potential. Whether unique, luxurious or unassuming, designs that incorporate various hues or a combination of precious metals ensure an extra special touch for a variety of applications. Electroplated finishes become an integral part of the design.

Exceptional performance for lasting beauty

MKS' Atotech processes provide exceptional results for a wide range of precious metals plating requirements – from ambitious fashion jewelry to high-grade silverware and serving trays. These beautiful, uniform and highly resistant coatings withstand the strains of the most intensive daily use. Diverse surface finishes suit an array of intended applications.

End markets and industries MKS serves

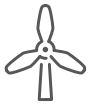
Automotive

Sanitary

Heavy machinery

Construction

Household appliances



Energy