

TriChrome®

Cr(VI)-free decorative chromium plating



General Metal Finishing

Decorative coatings

atotech.com



Setting design benchmarks with a sustainable alternative to hexavalent chromium plating



Decorative, efficient, sustainable

MKS' Atotech trivalent chromium processes for decorative applications encompasses the whole color palette - ranging from a bright, clear appearance to darker shades. TriChrome® processes are suitable for metal-based applications, plating on plastics and Ni-free intermediate layers such as white bronze. TriChrome® deposits offer unique alloy properties, allowing for color adjustments and providing high corrosion resistance. Combined with Atotech satin nickel processes, TriChrome® provides designers with innovative solutions and the greatest freedom of choice.

All TriChrome® processes can be used in combination with TriChrome® Ion Exchanger Units. MKS' Atotech regeneration systems increase the lifetime of the electrolyte and allow to remove metallic impurities to guarantee best quality during operation.

With TriChrome®, Atotech continues to comply with the most demanding industry requirements, while setting design benchmarks with the different color nuances available.

TriChrome® processes are the best alternative to hexavalent chromium plating



Figure 1-2:
Sanitary and automotive parts with TriChrome® finishes

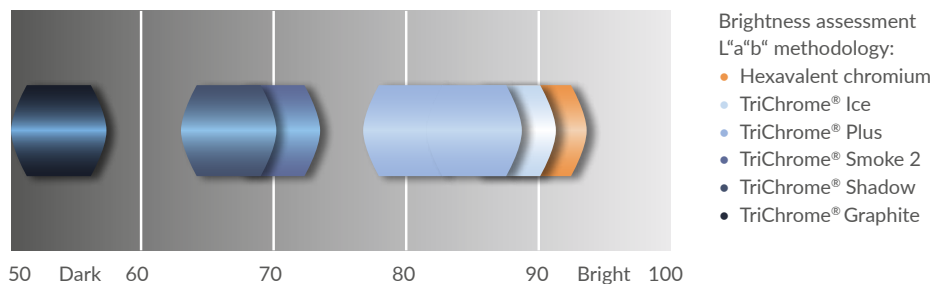
Tried and trusted technology

TriChrome® processes have been used worldwide for more than 30 years in a variety of applications such as automotive, sanitary, cosmetics, consumer goods, consumer electronics, furniture, etc. TriChrome® is a tried-and-trusted technology in use at more than 200 customer locations worldwide.

Features and benefits

- Cr(VI)-free – simple handling and increased workers' safety
- Sustainable solution (ELV, WEEE, ROHS, REACH-compliant)
- For plastic and metal applications
- High corrosion resistance
- Ranging from bright to dark finishes – great freedom of choice for new designs
- TriSeal® series: Cr(VI)-free post-treatment for increased NSS resistance

Brightness assessment (L*a*b methodology)



The TriChrome® family at a glance

TriChrome® Ice	Closest color to hexavalent chrome
TriChrome® Plus	Bright, clear color, high speed, russian mud
TriChrome® Smoke 2	Grey, warm color
TriChrome® Shadow	Grey, cool color
TriChrome® Graphite	Dark, warm color

