

Multilayer nickel & chrome

Well-matched plating systems



General Metal Finishing

Decorative coatings

atotech.com

Unmatched solutions for decorative applications

For automotive, from

48 h to 120 h

CASS

for plastic and metal substrates

Design meets functionality

MKS' Atotech multilayer nickel and chrome systems are the outcome of many years of experience in decorative and functional electroplating for automotive applications. Combining semi-bright and bright nickel processes with MKS' Atotech renowned microporous nickel portfolio and high quality final chrome layers, these systems meet the most stringent decorative and corrosion protection requirements.

Features and benefits

- Multilayer systems for high corrosion resistance
- Wide range of finishes and colors available through plating with Satilume® Plus satin nickel and TriChrome® trivalent chromium processes
- Trusted and approved worldwide for automotive and all other industry applications

Figure 1-3:
Nickel and chromium plated automotive parts



Long lasting decorative finishes for modern designs



Multilayer nickel

Multilayer nickel systems are the key to long lasting finishes. From levelled and ductile semi-bright nickels, to bright or satin nickel layers, including an optional high sulfur layer or a new generation of microporous nickel MPS 800 – Atotech multilayer nickel systems are the solution for even harshest corrosion environments.

Chrome

Apart from standard technologies, Atotech is offering high performing trivalent chrome processes. Suitable for plastic and metal applications, TriChrome® processes are a proven and trusted sustainable alternative to hexavalent chromium. From bright to dark, TriChrome® Ice, Plus, Smoke 2, Shadow and Graphite provide unique alloy properties, high corrosion resistance and different colors – TriChrome® gives the industry a new freedom of choice in modern design.

Type of process	Recommended Atotech process
Semi-bright nickel	Mark or Semilux® series
High sulphur nickel	HSA nickel
Bright nickel	Unibrite, Supreme Plus, Zodiac 220
Satin nickel	Satilume® Plus
Microporous nickel	MPS 800, MPS 300
Micro-cracked nickel	PNS 100
Trivalent chromium	TriChrome® series
Hexavalent chromium	CR 843

Increasing efficiency

In addition to the chemical product portfolio, Atotech offers auxiliary and production equipment that increases productivity, saves costs and supports an efficient use of raw materials.

Amongst others, the auxiliary equipment complementing our nickel portfolio comprises a maintenance and recycling system for nickel electrolytes, a system for nickel recovery from rinsewaters as well as a regeneration system for satin nickel electrolytes.

Removing metallic impurities in the electrolyte, a fully automated regeneration system for Atotech TriChrome® electrolytic range is available.

