

Silver

High Tech Electroplating



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What does “silver plating” mean?

Silver plating is a surface treatment that can be applied to a wide range of products due to the versatility of silver. Aalberts Surface Technologies B.V. is your partner when it comes to silver plating of various parts and/or products. Thanks to our many years of experience, we can guarantee perfect quality even for the most complex shapes.

In galvanic silver plating, silver is applied to metal products in an electrolyte to which silver salts have been added. The silver is plated to the parts by using an electric current.

The chemical composition of the electrolyte and the process parameters influence the properties of the coating. The process temperatures vary between 15 - 30 °C. Aalberts Surface Technologies B.V. has both hanging and barrel lines for silver plating. Both methods make it possible to treat single pieces as well as large series with excellent reproducibility. To guarantee you a perfect quality, we have extremely accurate measuring equipment.

In addition to product quality, environmental quality is also very important to us. Our waste water system monitors and controls the quality 24 hours



a day. In addition, we have developed a special water treatment system to clean and reuse the rinse water.



Properties	Specification
Maximum layer thickness	more than 200 µm possible
Electrical resistance	16 - 18.8 10 ⁻⁹ Ωm
Electrical conductivity	up to 62.5 · 10 ⁺⁶ Ω ⁻¹ m ⁻¹ (at 20°C)
Hardness	70 - 120 HV
General standard	ISO 4521 : 2008
Melting point	960°C
Treatable materials	All metals, including aluminum, titanium and other exotic metals

