

RHODIUM ALTERNATIVES

✓ **Coating characteristics:**

	Rhodium	White platinum	Palladium	Chrome
Appearance	shiny white	shiny white	grey-white	grey-blue
Colour	L : 90.5	L : 90.2	L : 85	L : 83
	a : 1	a : 0.9	a : 1	a : -0.5
	b : 1.6	b : 1.6	b : 4.2	b : -0.2
Hardness	850 HV	650 HV	470 HV	1100 HV
Density	12.4 g/cm ³	20.5 g/cm ³	12.2 g/cm ³	7.2 g/cm ³
Thickness	0.05-0.2 μ	0.1-0.2 μ	0.2-5 μ	0.3-0.5 μ
Undercoat	nickel 0.5 -2 μ	nickel 0.5 -2 μ	nickel 0.5 -2 μ	nickel 0.5 -2 μ
Cost	+++++	++	++	+

✓ **Long-term durability:**

All coatings can be mass-produced, are stable, REACH compliant and resist the climatic test according to standard NIHS 96-50. They meet all watchmaking tests.

✓ **White platinum:**

White platinum is a result of a new process that has been specially developed by the R&D department at STS for high-end watchmaking. It is composed of several metals which come from platinum mines. A white platinum coating is just as white and shiny as a rhodium coating for similar layer thicknesses.

✓ **Palladium:**

Palladium is a grey-white colour and has been used for a long time by watchmakers. Its cost is identical to that of rhodium (before its price increase).

✓ **Chrome:**

STS has adapted this innovative coating to the constraints of watchmaking. Chrome is a unique grey-blue colour, inexpensive and has interesting properties because of its significant hardness.

Our technical sales representatives are at your disposal to explain these alternatives in more detail and answer any questions.

Yves Bays +41 (0)32 427 06 59
Victorien Faton +41 (0)079 629 58 84

y.bays@sts-galvano.ch
v.faton@sts-galvano.ch