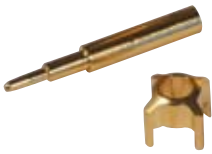




Developed by HUBER+SUHNER Galvanik: SUCOPRO – the high-quality and cost-effective alternative to conventional gold plating



The SUCOPRO plating system consists of an electrolytically applied nickel phosphorous layer with a gold flash. The major advantage of the SUCOPRO coating system compared to conventional gold plating systems is that costs can be significantly reduced; while offering the same level of performance, or better. The outstanding feature of SUCOPRO is its resistance to wear and tear..

Wear-resistance properties

The wear-resistance tests were performed with a plated ball and washer with an application pressure of 1 N. The composition of the plating of the components (ball and washer) was the same.



Standard gold plate

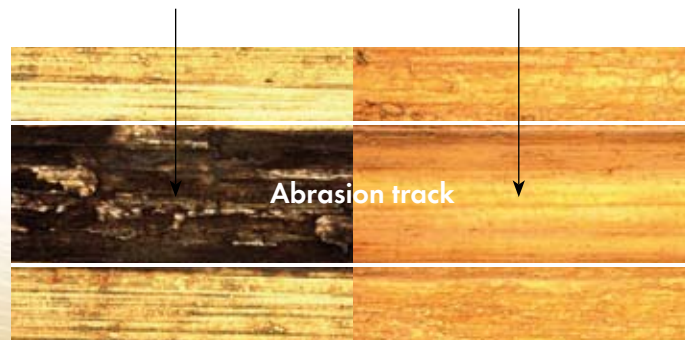
(2 µm Ni+0.8 µm Au)

Even after a couple of cycles, the plating has worn through to reveal the substrate.

SUCOPRO

(2 µm Ni-P+0.1 - 0.2 µm Au)

Even after 8-fold loading in comparison with standard gold plating, gold plating is still apparent along the abrasion track.



Composition of SUCOPRO

Substrate:	(brass or other substrate materials)
Intermediate layer:	2 µm nickel-phosphorus (P min. 10.5%)
Plating layer:	0.1 - 0.2 µm gold 99.7%

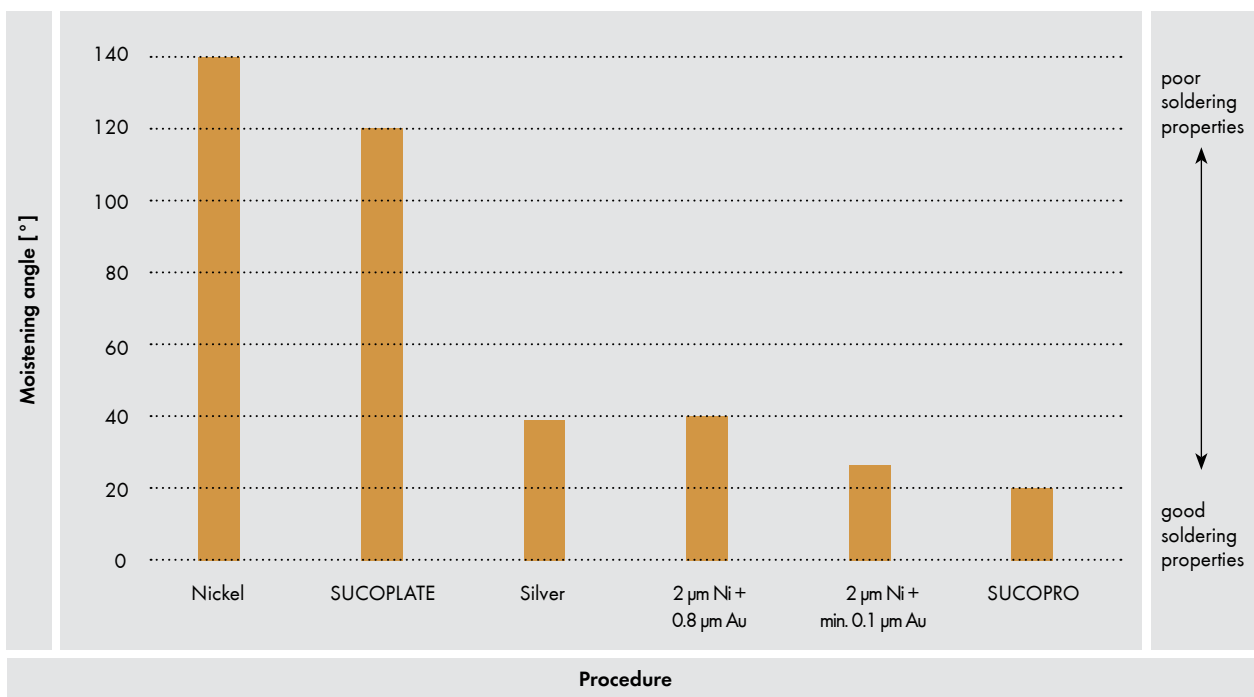
Properties

- Excellent wear resistance
- Non-magnetic
- Excellent corrosion resistance
- Excellent soldering properties
- Low and stable contact resistance
- Good crimping properties

Contact resistance (mΩ)

The contact resistance does not generate values over 2.63 mΩ with ageing or 2.5 mΩ with plug-ins, respectively; either under simulated ageing (150°C, 2000 hours) or after 500 plug-ins.

Relative soldering characteristics



HUBER+SUHNER is certified according to ISO 9001 and ISO 14001.

WAIVER

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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