

CERTIFICATE

Electrolytic surface treatments on beads.

Metal layers description :

1. Surface treatment „Copper“

Galvanic bath :	Cuprostar(MacDermid)
Layer thickness :	ca.10 µm
Layer properties :	pure copper, Cu 99,9%
Passivation :	without Cr6+
Restrictions acc.to ROHS, REACH :	none

2. Surface treatment „Silver“

First layer is copper (ca.10 µm) following by silver(ca. 1 µm). Silver is passivated by non-chrome passivation.

Technology used :	Cuprostar + Silvrex(MacDermid)
Layer properties :	pure copper, Cu 99,9% + pure silver, Ag 99,9%
Restrictions acc.to ROHS, REACH :	none

3. . Surface treatment „Gold 24k“

First layer is copper (ca.10 µm) following by nickel(ca. 5 µm) and following final layer of gold(ca.0,15 µm)

Použitá technologie :	Cuprostar(Mac Dermid) + Trolume + Aurigal(Atotech)
Layer properties :	pure copper, Cu 99,9% + pure nickel, Ni 99,9% and pure gold 24k
Restrictions acc.to ROHS, REACH :	none

All surfaces conform to standards ROHS and REACH (r.2020).