

黒色スズニッケル合金めっき液

トップファルベSN-KT

Black Color Tin-Nickel Alloy Plating Solution

TOP FARBE SN-KT

- 硫黄、コバルトフリーの黒色スズニッケル合金めっき液
 - 液攪拌の影響を受けにくく、均一な黒色外観が得られる (Roll to Rollめっきにも対応可能)
 - 幅広い電流密度領域で黒色外観が得られる
- Solution for sulfur-, cobalt-free black color tin-nickel alloy plating
 - Reduce the impact on appearance by bath agitation (Roll to Roll plating also can be conducted)
 - Uniform black tones can be obtained in wide current density areas

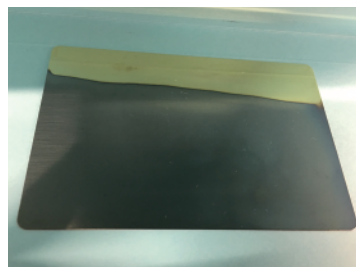
めっき外観 Plated appearance

L*56.07 a*1.27 b*3.51

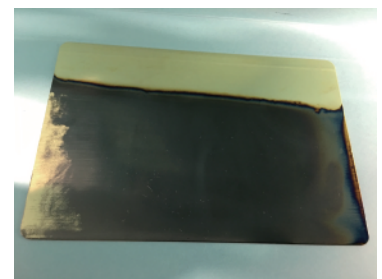


均一な黒色外観 Uniform black tones

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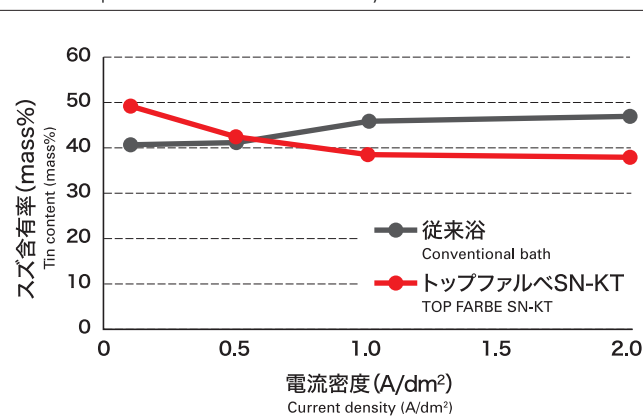
従来浴(硫黄含有)
Conventional bath(Containing sulfur)



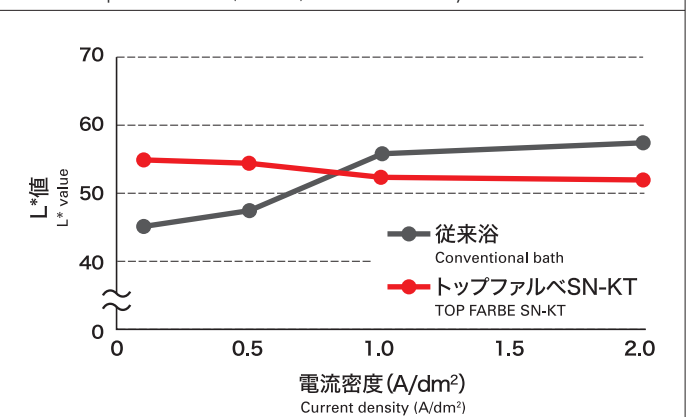
空気攪拌実施(0.5L/min) Air agitation amount (0.5L/min)

幅広い電流密度領域に対応 Applicable to wide current density

電流密度とめっき皮膜組成の関係
Relationship of tin content and current density



電流密度と黒色外観(L*値)の関係
Relationship of black tones(L*value) and current density



浴組成 Bath composition

トップファルベSN-KT-S TOP FARBE SN-KT-S	7.2g/L
(スズ濃度) (Tin concentration)	(3.8g/L)
トップファルベSN-KTコンク TOP FARBE SN-KT CONC	750ml/L
(ニッケル濃度) (Nickel concentration)	(17.8g/L)

作業条件 Working condition

pH	8.5(8.0~9.0) 8.5(8.0 to 9.0)
電流密度 Current density	0.5A/dm ² (0.1~2.0A/dm ²)
浴温 Bath temperature	35°C
陽極 Anode	不溶性陽極(カーボン系電極) Insoluble Anode (Carbon type)
攪拌 Agitation	ろ過による緩やかな液流動 Mild bath circulation by filtration
排気装置 Exhaust	局所排気装置 Local exhaust