

低周波電磁波シールド向け無電解めっき液
Electroless plating solution for low-frequency electromagnetic shielding

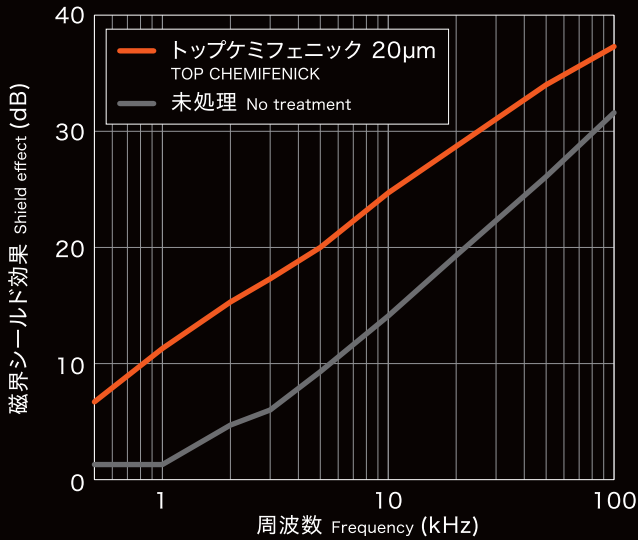
トップケミフェニック

TOP CHEMIFENICK

- 浴は安定で均一析出性に優れる無電解ニッケル-鉄合金めっき液
Electroless nickel-iron alloy plating solution, great bath stability and deposition uniformity
- 導電性のない樹脂粉体などにも均一な皮膜を形成
Uniform film can be formed on resin powder that does not show conductivity
- 優れた低保磁力・高磁束密度の軟磁性めっき皮膜が得られる
Excellent in low coercivity, can obtain soft-magnetic plated films with high magnetic flux density

低周波シールド効果が向上

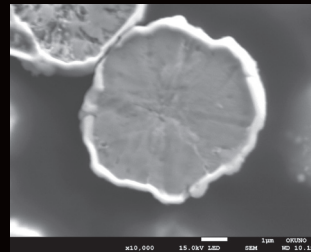
Improve shield effect to low frequency waves



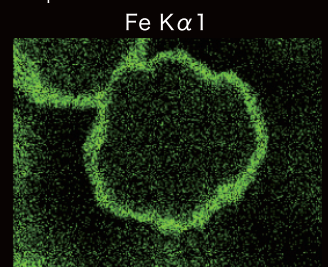
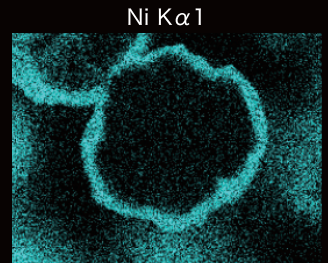
シールド材試験方法: KEC法
Shield material test method: KEC method
両面めっき 素材: 銅板(板厚0.3mm)
Both sides Substrate: Copper plate (thickness 0.3mm)

粉体表面にも均一に析出

Uniform film can be formed on a powder



断面SEM像
Cross section SEM image

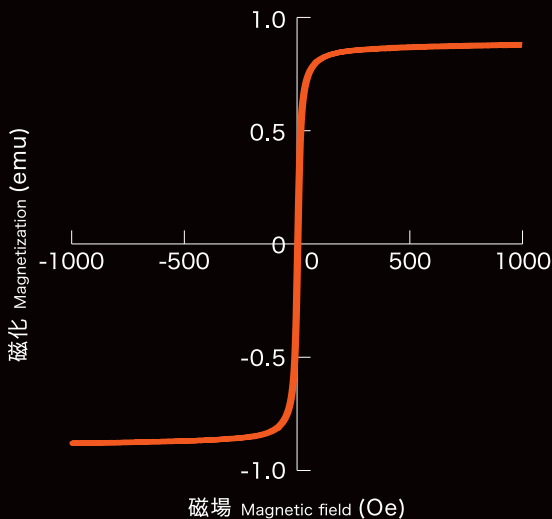


2.5µm

2.5µm

優れた磁気特性

Excellent in magnetic properties



VSM (振動試料型磁力計) By Vibration Sample Magnetometer

標準条件および皮膜物性

Standard condition

トップケミフェニックA TOP CHEMIFENICK A	800ml/L
トップケミフェニックB TOP CHEMIFENICK B	60ml/L
pH	8.3
浴温 Bath temperature	80°C
攪拌 Agitation	揺動・液循環 Shaking/rocking of substrate, circulation by pump
飽和磁束密度 Saturation magnetic flux density	1.18T
保磁力 Coercivity	4.40e
鉄含有率 Iron content in the deposition films	20~25wt%