

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

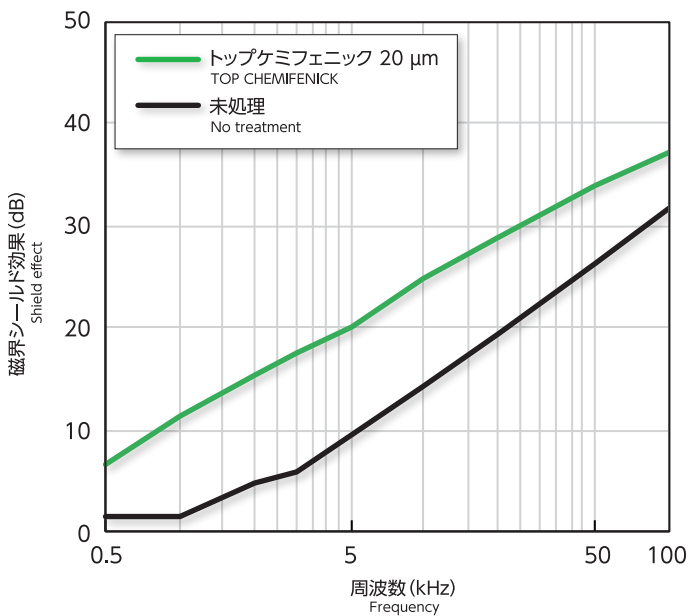
トップケミフェニック

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
- 導電性のない樹脂などにもめっき可能
Can plate non-conductive resin
- 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

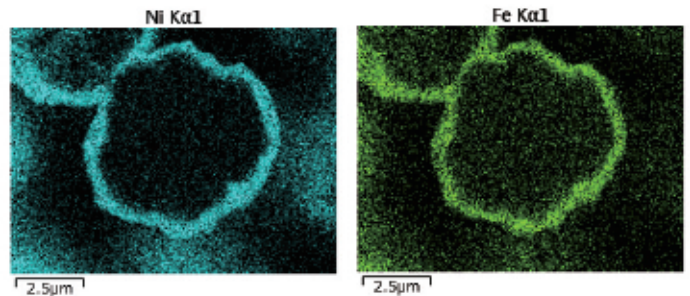
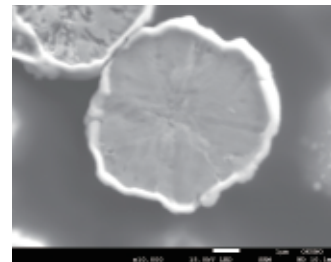


シールド材試験方法: KEC法 両面めっき 素材: 銅板(板厚0.3mm)
Shield material test method KEC method Both sides Substrate Copper plate

粉体表面もめっき可能

Can plate on powder

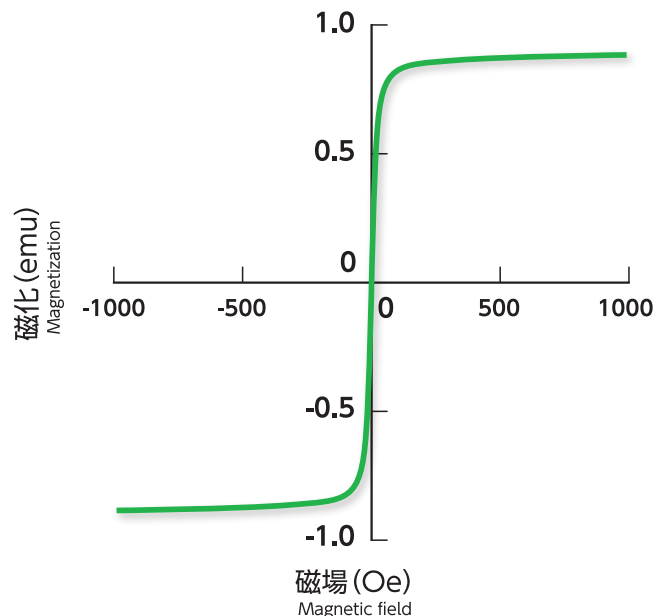
断面SEM像
SEM image of cross section



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 and film properties

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	1.18 T
保磁力 Coercivity	4.4 Oe
鉄含有率 Iron content in the deposition films	20~25 wt%