

鉛フリー低リンタイプ無電解ニッケル/PTFE複合めっき液

トップニコジットLPFE

Lead-free, Low-phosphorus Electroless Nickel / PTFE Composite Plating Solution

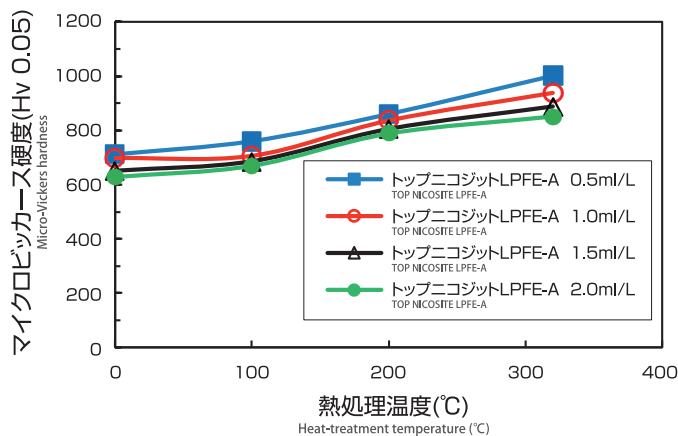
TOP NICOSITE LPFE

- 析出皮膜は硬度が高く、摺動性に優れる
- リン含有率が1～3wt%と低く、PTFE共析量も約5vol%以下で硬度が高い
- 析出皮膜はHv650～700で、320℃の熱処理により 約Hv1000が得られる

- Excellent in film hardness, high sliding performance
- High hardness comes available
 - Ni-P (P ratio: 1 to 3% by weight), PTFE ratio: below 5% by volume
- Film hardness: Hv 650 to 700 (as deposited)
 - Approx. Hv 1,000 (after heat treatment at 320°C)

高い硬度

Great hardness

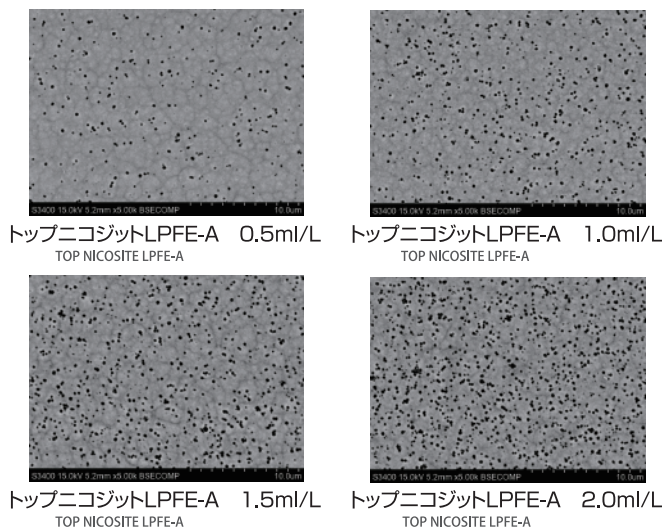


熱処理温度と皮膜硬度の関係

Relationship of heat-treatment temperature and film hardness

均一な共析性

Excellent in co-deposition performance

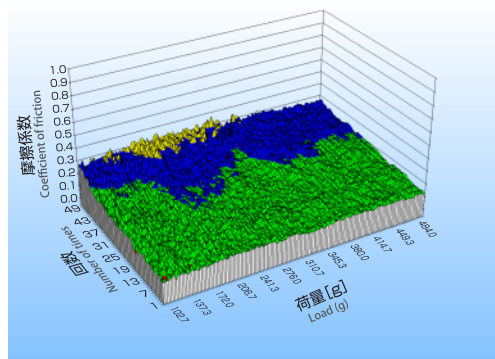


めっき皮膜の表面SEM写真

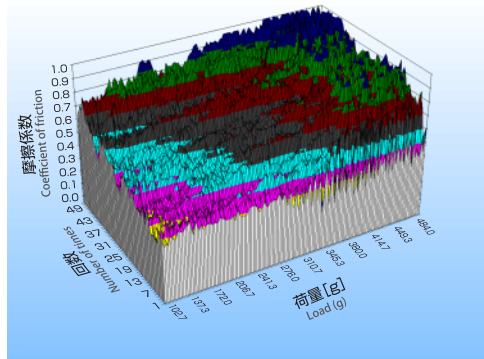
SEM image (Surface of the deposit)

優れた摺動性

Excellent in sliding performance



トップニコジットLPFE-A 1.0ml/L
TOP NICOSITE LPFE-A



低リン無電解ニッケル
Low-phosphorus electroless nickel plating

トップニコジットLPFE皮膜および低リン無電解ニッケル皮膜の摩擦係数

Coefficient of friction of plating film by TOP NICOSITE LPFE and low phosphorus type plating solution

- (測定機器)
荷重変動型摩擦摩耗試験機
トライボギアHHS-2000
新東科学株式会社
- (測定モード)
加減重往復測定
- (測定子)
φ10mm SUSボール
- (荷重)
100gf(0.98N)～500gf(4.90N)
- (往復回数)
50回
- (Evaluation method)
Friction and wear testing machine
Tribo Gear (HHS-2000),
Made by SHINTO Scientific Co., Ltd.
- (Evaluation mode)
Addition and subtraction weight,
reciprocating-motion measurement
- (Measuring point)
Stainless steel ball, diameter 10mm
- (Weight)
100gf(0.98N) to 500gf(4.90N)
- (Reciprocating-motion)
50 times