

# 重金属フリー無電解ニッケルめっき液

Heavy Metal-free Electroless Nickel Plating Solution

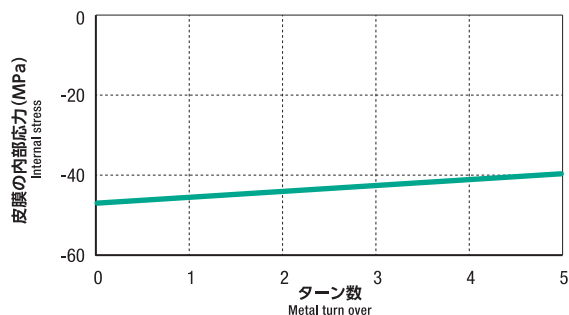
# トップニコロンNHP-GE

TOP NICORON NHP-GE

- 析出皮膜の内部応力が圧縮で、厚付けめっきに最適  
Show compressive stress, best for thick plating
- 析出皮膜は高リンで耐食性に優れる  
High phosphorous type, show high corrosion resistance
- 析出皮膜は耐クラック性、耐折性、耐疲労性に優れる  
High crack-, folding-, fatigue-resistance comes available
- 安定剤に重金属を含まないため、様々な環境規制に対応  
Heavy metal-free type, conforming to various environmental regulations

## 圧縮応力

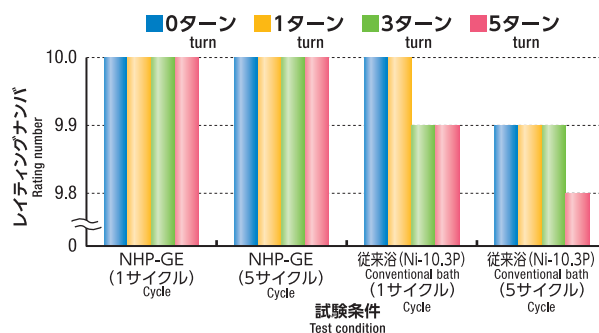
Compressive stress



ターン数と皮膜の内部応力の関係  
Relationship of metal turn over and internal stress

## 高耐食性

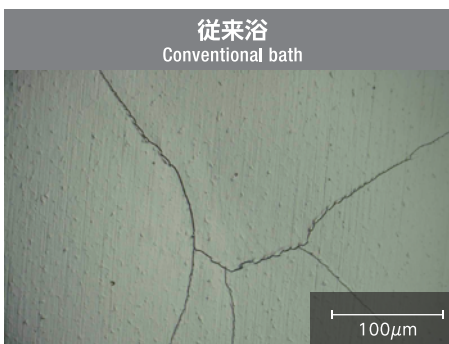
High corrosion resistance



塩水噴霧試験機を用いた耐食性比較  
Corrosion resistance comparison (by salt spray test)

## 良好な耐クラック性

Excellent in crack resistance

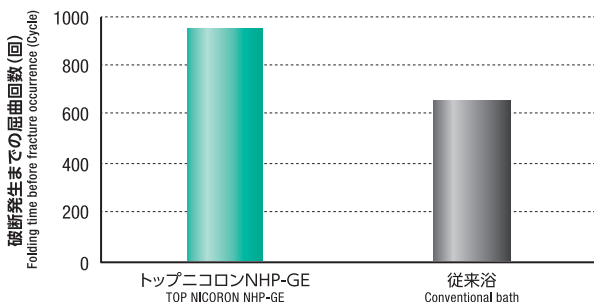


エリクセン試験後の外観比較  
Appearance comparison after Erichsen test

- めっき膜厚: 60µm  
Thickness
- 押し込み: 1mm  
Indentation
- 素材: 鉄板  
Substrates: Iron

## 優れた耐折性

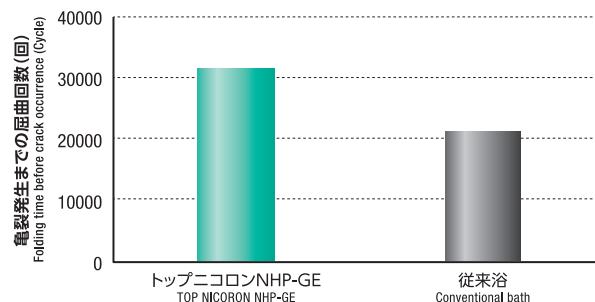
Great folding endurance



MIT試験機を用いた耐折性比較  
Folding endurance comparison (by MIT folding endurance tester)

## 優れた耐疲労性

Great fatigue resistance



平面曲げ疲労試験機による低サイクル疲労試験  
Fatigue resistance comparison (by plane-bending fatigue tester)