

トップニコロン MSG-SLF

低温タイプ鉛フリー
無電解Ni-Pめっき液

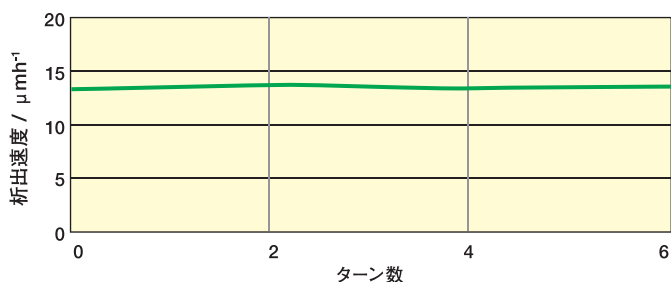
- 低温(70~80℃)で使用できるため、燃料費を削減できる
- 浴の老化に伴う析出速度の低下が少ない
- 析出皮膜は光沢、レベリングに優れる
- 鉛化合物を使用していない



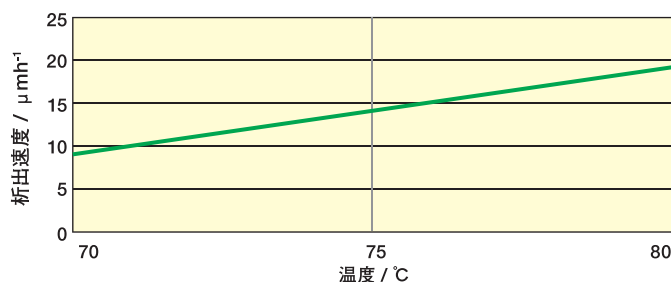
作業条件

建浴濃度	トップニコロンMSG-SLF 200ml/L
ニッケル濃度	5.5g/L
pH	5.0
温度	75℃

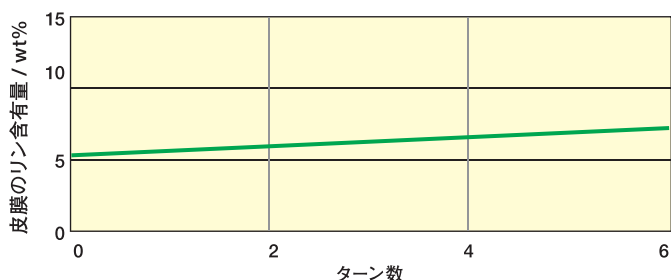
性能



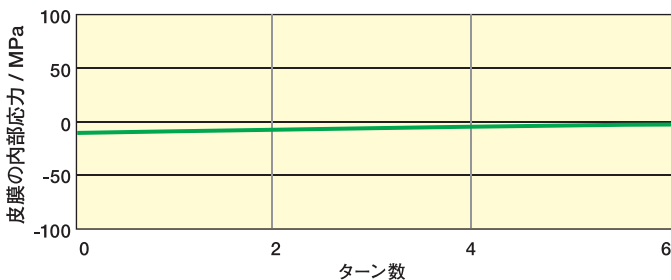
ターン数による析出速度の変化



温度と析出速度の関係



ターン数によるリン含有量の変化



ターン数による内部応力の変化

TOP NICORON MSG-LF

Low Temperature Type
Lead-free
Electroless Ni-P Plating Process

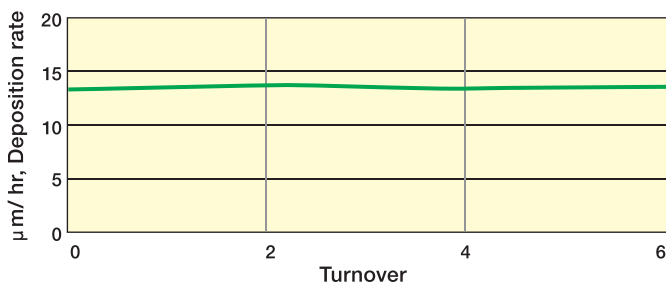
- Low bath temperature (70 to 80°C) is available so that fuel cost can be reduced.
- Deposition rate is almost constant in spite of bath ageing.
- Excellent brightness and levelling.
- Lead-free type.



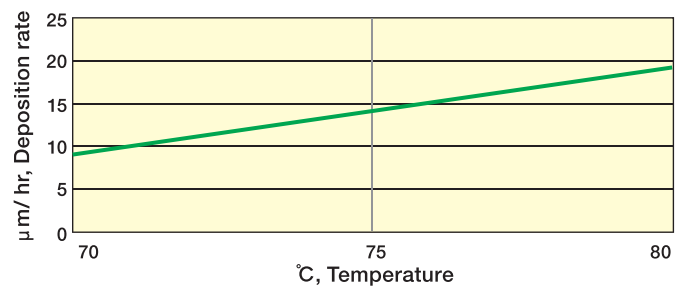
Working condition

Makeup	TOP NICORON MSG-SLF 200ml/L
Nickel concentration	5.5g/L
pH	5.0
Bath temperature	75°C

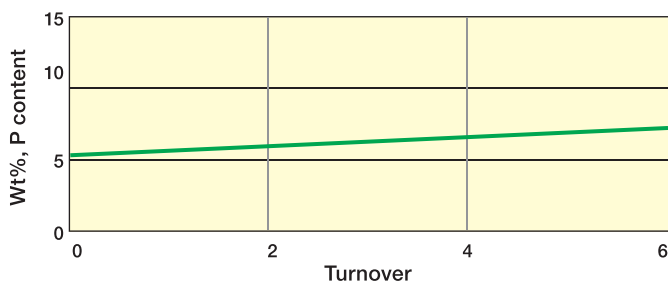
Performance



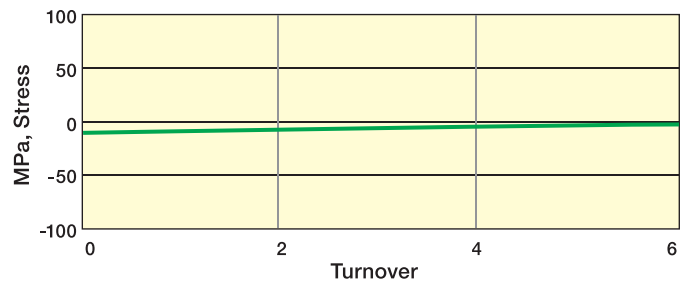
Relation between deposition rate and bath ageing.



Relation between deposition rate and bath temperature.



Relation between P content and bath ageing.



Relation between internal stress and bath ageing.