

高耐食性めっきプロセス
High Corrosion-Resistance Plating Process

ニスタロイH/トップファインクロム

NISTALLOY H / TOP FINECHROME

- 従来のNi/Cr⁶⁺めっき皮膜より高耐食性を示すめっきプロセス
- Cr³⁺めっき液トップファインクロムはCr⁶⁺めっき皮膜と極めて近い色調を示す
- Sn-Ni合金めっき液ニスタロイHは耐食性に優れ、Cr³⁺めっき皮膜の耐食性を向上させる
- Can provide higher corrosion-resistance than conventional Ni/Cr⁶⁺ plating film.
- Can provide the same appearance as that by conventional process, since TOP FINECHROME, Cr³⁺ plating process, exhibits the same level of color tone of appearance as that of Cr⁶⁺ plating film.
- NISTALLOY H, Sn-Ni alloy plating process, gives high corrosion-resistance, and enhances corrosion-resistance of Cr³⁺ plating film.

性能 Performance

めっき皮膜構成と色調

Composition of Plating Films and Color Tones



従来プロセス
Conventional process

L*	82.34
a*	-1.56
b*	-1.27

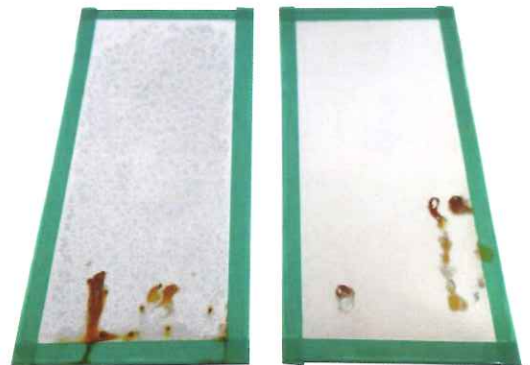


高耐食プロセス
High corrosion-resistance process

L*	81.54
a*	-1.15
b*	+0.62

CASS試験168時間後

Results of CASS test after 168 hrs.



従来プロセス
Conventional process

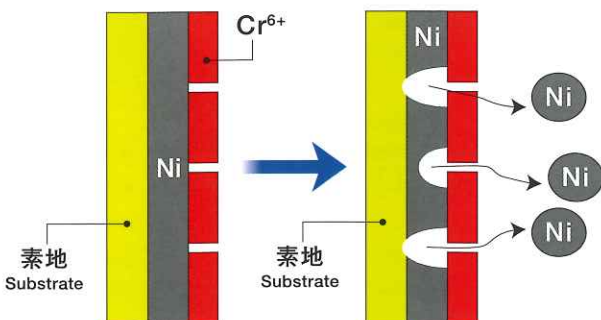
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High corrosion-resistance process

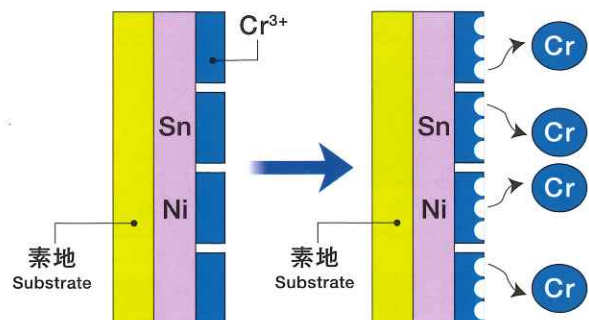
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腐食機構 Mechanism of Corrosion

従来プロセス Conventional process



高耐食プロセス High corrosion-resistance process



従来のNi/Cr⁶⁺めっきプロセスでは下地Ni皮膜から溶解し腐食が全体的に進行。

一方、Sn-Ni/Cr³⁺めっきプロセスでは下地からの腐食が発生しないため高い耐食性が得られる。

In case of conventional Ni/Cr⁶⁺ plating process, Ni plating film as an underlayer dissolves at the beginning, thereafter the corrosion proceeds as a whole.
In case of Sn-Ni/Cr³⁺ plating process, high corrosion-resistance is obtained since the underlayer does not corrode.