

超微細回路形成および最終表面処理

トップUFPプロセス

Ultra-fine Pattern Formation and Final Surface Treatment

TOP UFP PROCESS

SAP

絶縁樹脂ABF材

Insulating resin ABF substrate

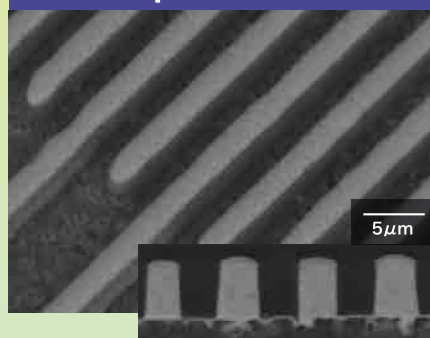
MSAP

極薄銅箔 (JXUT-Ⅲ 1.5μm厚)

【JX金属(株)製】

Ultra thin copper foil JXUT-III 1.5μm thickness
(made by JX Nippon Mining & Metals Corporation)

L/S=2/2μm



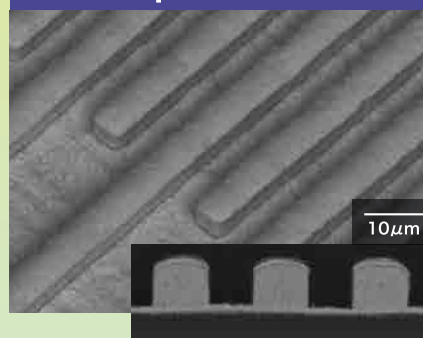
デスマア・無電解銅めっき

De-smear/Electroless
Copper Plating

- ◎ ナノ銀触媒を用いた無電解銅めっき
- ◎ 触媒残渣除去性に優れる
- ◎ パターン外析出が極めて少ない

- Electroless copper plating using nano silver catalyst
- Excellent in catalyst residue removing performance
- Strongly reduce deposition outside patterns

L/S=5/5μm



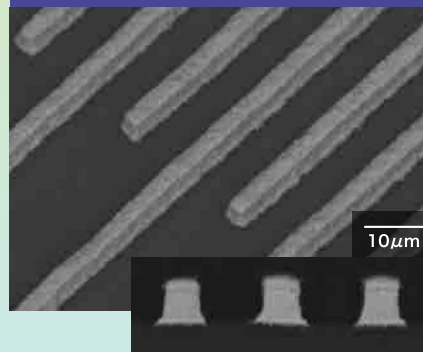
フラッシュエッチング

Flash Etching

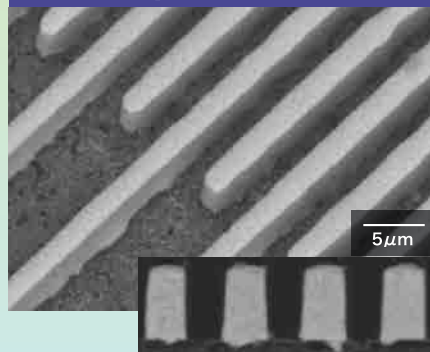
- ◎ ナノ銀触媒用フラッシュエッチング液(開発品)

- Flash etching solution for nano silver catalyst (Under development)

L/S=5/5μm



L/S=2/2μm



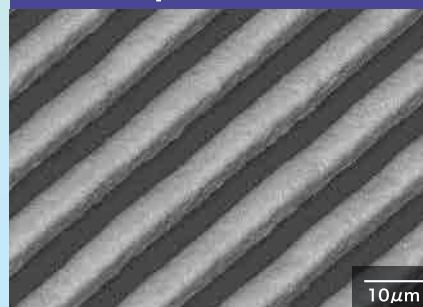
最終表面処理

Final Surface Treatment

- ◎ 超微細配線に対応可能
- ◎ 被覆性良好
- ◎ 耐食性や耐熱性に優れる

- Applicable to ultra-fine patterning
- Great covering power
- High corrosion- and heat-resistance

L/S=5/5μm



無電解パラジウム/金
めっき後

After electroless palladium/gold plating

L/S=2/2μm

達成

can be realized

無電解ニッケル/パラジウム/金
めっき後 (低ニッケル膜厚仕様)

After electroless nickel/palladium/gold plating
(By thinner nickel plating)

L/S=5/5μm

達成

can be realized