

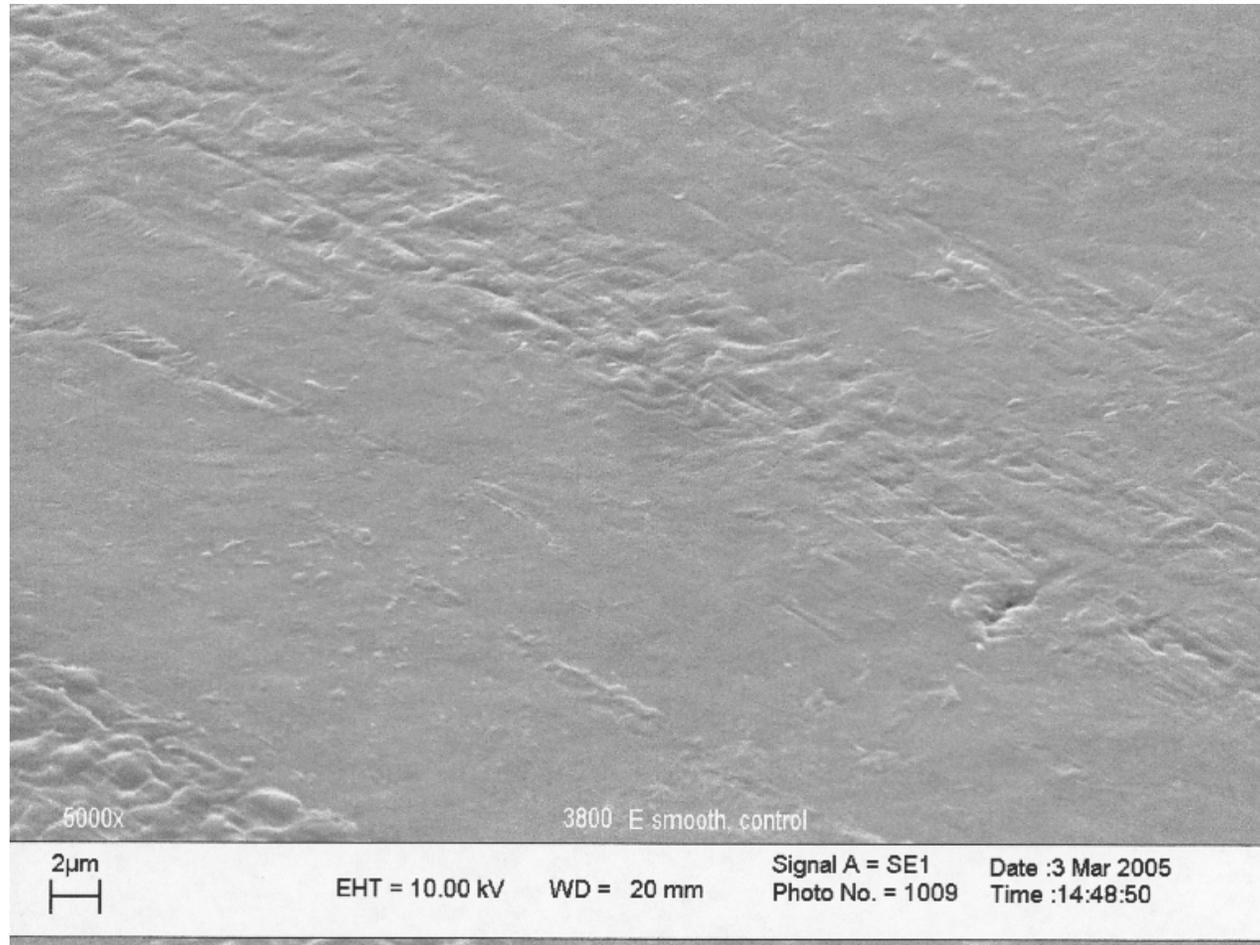
Lamination to Ultralam 3000

Surface treatments Vs Surface
Roughness

Options

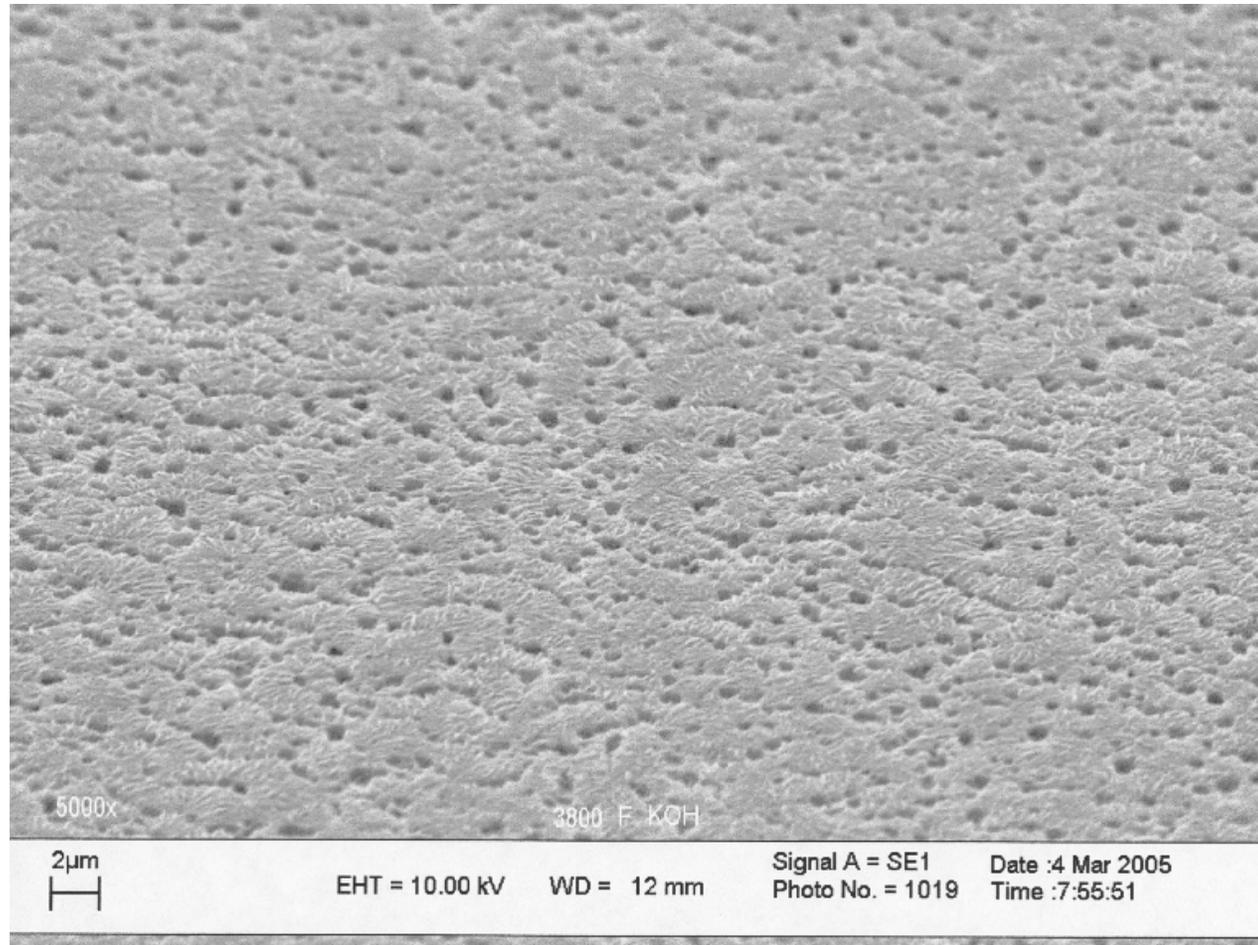
- Providing surface area for bonding is critical.
- The imprint left by our laminated copper foils is best for bonding.
- There are two recommended surface treatment options.
- In all cases, the surfaces will become more wettable.

Untreated Ultralam 3800 Dielectric Film Surface



(5000X)

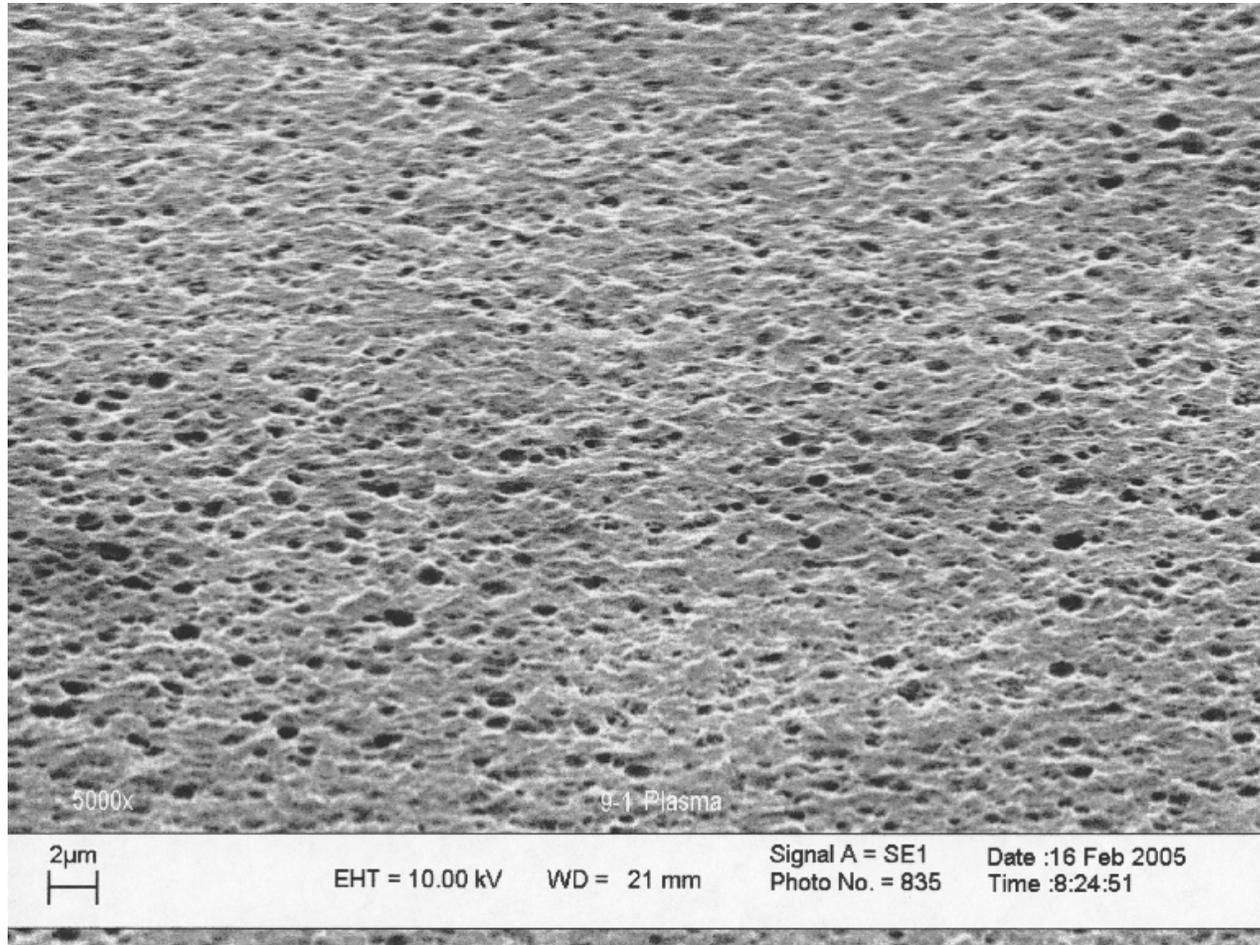
KOH Treated Ultralam 3800 Dielectric Film - Good -



35%, 90C, 2-3 minutes

(5000X)

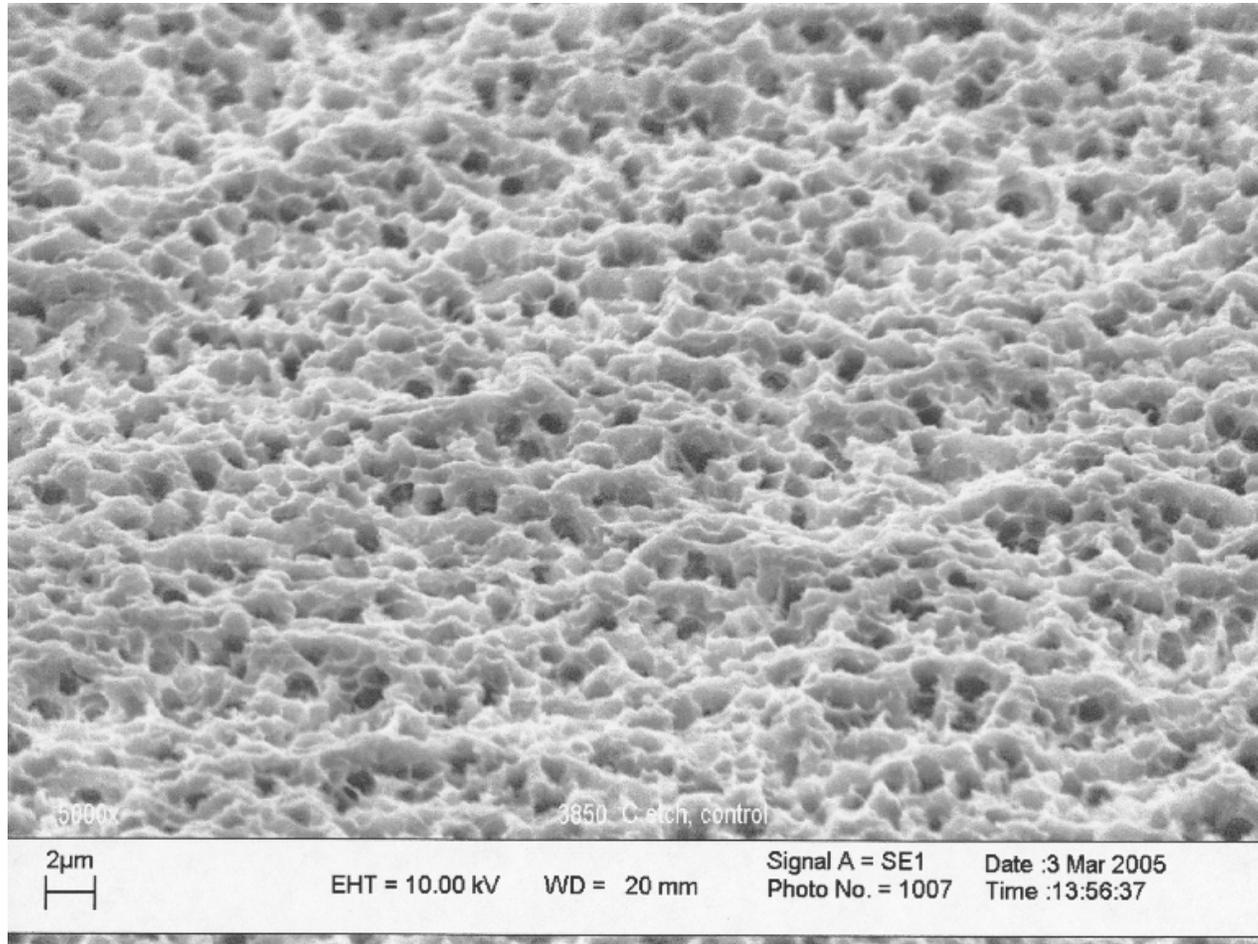
Plasma Treated Ultralam 3800 Dielectric Film – Better -



(5000X)

We recommend CF₄/O₂ (10%/90%) followed by H₂/N₂ (10%/90%)

Etched Ultralam 3850 Laminate (Copper clad removed) - Best -



(5000X)