Controlled Atmosphere Configurations

Product Description

Incorporating MicroFab's highly successful jetlab® II and jetlab® 4 microdispensing and printing platforms into an MBRAUN Labmaster® series glovebox, the Controlled Atmosphere configurations of the jetlab® II and jetlab® 4 allow customers to develop precision printing applications using materials and processes that are oxygen or moisture sensitive. Examples include printing electronic and photonic polymers used in displays and RFID tags; printing and post-processing nano-metal aluminum or copper inks as conductive traces or under-bump metallization; printing and fluxless reflow of solder for hermetic package sealing; printing and converting copper-based organo-metallic inks; and printing bacteria-free tissue scaffolds. The jetlab® II and jetlab® 4 can also be incorporated into a standard laminar flow hood for tissue engineering and other applications.

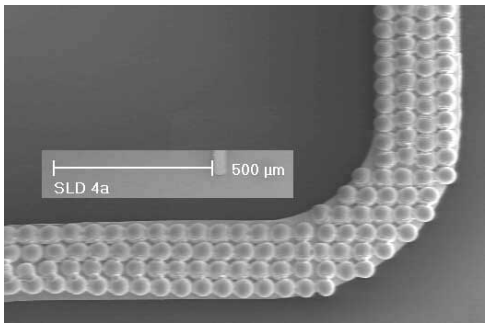
jetlab® II & 4

Controlled Atmosphere Configurations

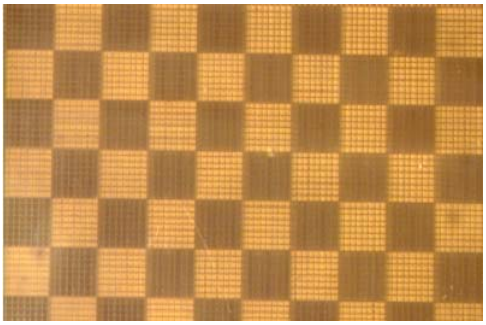
Applications

- Organic Electronics
- Organic Displays
- Solder Bumping
- Hermetic Sealing
- Nano-metal Conductors
- Organo-Metallics
- Embedded Passives
- Inert Post-Processing
- Tissue Engineering
- Sensors

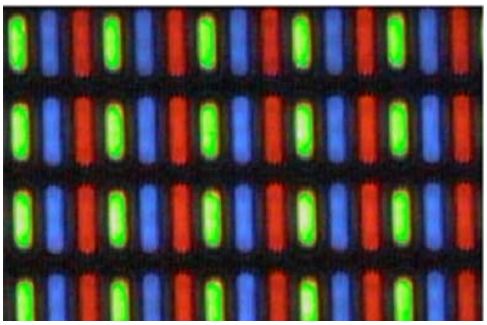
Solder Seal



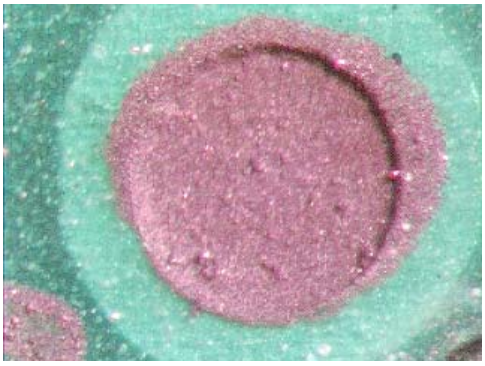
Polymer TFTs



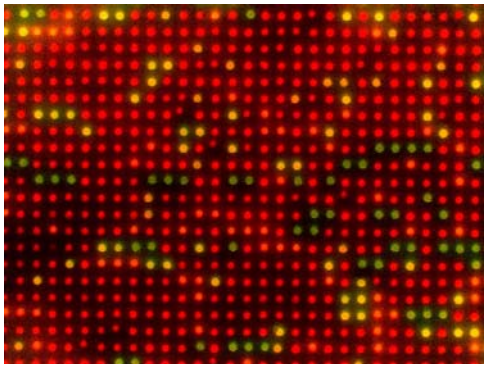
Polymer Display



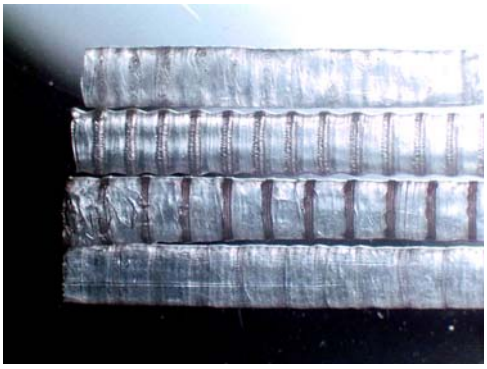
Nano-Cu UBM



Protein / DNA Array



Nerve regeneration Conduit



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