Distortion-Free Screen Printing
Microelectronics & Photovoltaics

nb technologies
consulting engineers

Frintrup NB Special Screen Technology (Kunshan)

is a joint venture between NB Technologies GmbH and Hans Frintrup GmbH located in Kunshan (near Shanghai) and produces high-end screen printing screens (sunstence® screens) for the Asian market.

The **sunstence® uni** screen is an application enabler for **distortion-free, multi-aligned, high-precision fine line screen printing** (down to 10-15 µm) in the field of microelectronics.

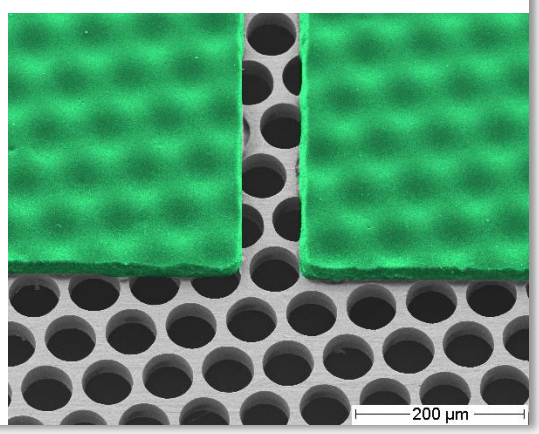
sunstence® uni (universal) is a combination of a perforated metal foil and an emulsion or a capillary film. There is no topography due to mesh crossing, which enables longer service life of the emulsion compared to mesh screens.

Major benefits:

- Distortion-free over total life
  (no elongation, not achievable with mesh screens)
- High alignment accuracy for multi-aligned print
- Image stability over high cycle number due to less or no screen degradation
- Extraordinary lifetime up to 200.000 printing runs
- Fine line capability down to 10-15 µm
- Reduced printing force capability provides soft contact print and less breakage risk
- More uniform thickness of print (less paste consumption)

Application:

- Solar cells
- Printed circuit boards
- Printed electronics
- RFID
- Lambda sensor



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