

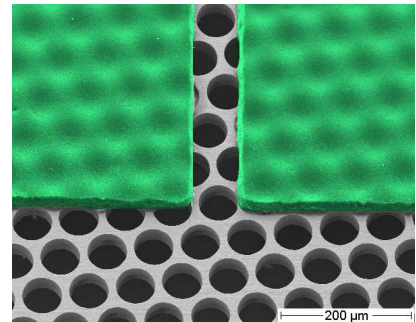
# sunstence<sup>®</sup> uni

## Technical datasheet

**nb technologies**  
consulting engineers




The **sunstence<sup>®</sup> uni** (universal) is a combination of a perforated steel 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.



### sunstence<sup>®</sup> uni technical data\*:

|                |  |
|----------------|--|
| frame          | 12"; Solar1212 (355mm x 355mm), 4 x M6 threads 330mm x 330mm, aluminium, slope 15"; Solar1515 (450mm x 450mm), 4 x M6 threads 407mm x 407mm, aluminium, slope (or customer choice)   |
| image area     | 162mm x 162mm (maximum, other on request)  |
| foil           | material: stainless steel (fixed)<br>thickness: <b>sunstence<sup>®</sup> uni sp</b> : 25µm / 30µm <b>sunstence<sup>®</sup> uni dp</b> : 35µm / 40µm<br>aperture size: 55µm +/-1.5µm (fixed, customised on request) / open area 55% |
| assembly       | trampoline type / tension 15N or customer choice up to 30N; tolerance +/-2N  |
| screen         | material: emulsion / capillary film<br>standard or chemically resistant (etch pastes, doping pastes)   |
|                | EOM e.g. 10µm / 15µm / 20µm / 25µm<br>customer choice / depends on application<br>mean value tolerance from target: -2µm/+3µm<br>4µm < Rz < 10µm   |
| line width     | minimum 40 (production, lab on request)<br>line width mean value tolerance from target: -2µm/+4µm  |
| fiducials      | filled white (or increased contrast on demand)<br>- at 240mm distance on main axes<br>- any feature within image area of 162mm by 162mm  |
| position error | angle image/frame: <2°<br>distance non-accuracy: 0.01% of nominal distance   |
| life time      | <ul style="list-style-type: none"> <li>➤ 20.000 prints (average as qualified by Applied Materials Baccini Cell Systems for Baccini Esatto Technology™)</li> <li>➤ 50.000 prints up to 90.000 prints reported</li> </ul>            |

\*dated August 2010; based on 9 point measurement (25°C/55% humidity); not binding nor guaranteed unless explicitly requested and agreed

**sunstence<sup>®</sup> uni** and **sunstence<sup>®</sup> me** are distributed under the **sunstence<sup>®</sup>** family by Hans Frintrup GmbH. 

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