

sunstence[®] uni

Technical datasheet

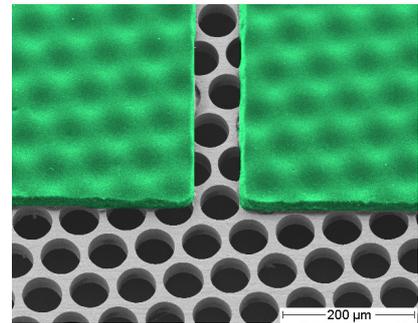
nb technologies
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The **sunstence[®] uni** (universal) is a combination of a perforated steel foil and an emulsion or a capillary film.

As the metal foil is not elongating in operation, the screen is absolutely **distortion-free** over time, as qualified multiple times, which enables to use the screen in multi-aligned or high-precision fine line printing applications.

As there is no topography like nodes of mesh crossings, the service life of the emulsion at constant precision is much longer compared to mesh screens.



sunstence[®] uni technical data*:

frame	12" (355mm x 355mm), 4 x M6 threads 330mm x 330mm, aluminium, slope 15" (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 data				
<i>model</i>	sunstence[®] uni sp	sunstence[®] uni dp	sunstence[®] uni fp	sunstence[®] uni ufp
<i>thickness</i>	25µm/30µm	35µm	25µm	15µm/18µm/20µm
<i>aperture size</i>	55µm	55µm	40µm	20µm/24µm
<i>material</i>	stainless steel	stainless steel	stainless steel	nickel
assembly	trampoline type / tension 24N (customer choice from 22N up to 30N; tolerance +/-2N)			
screen	material: emulsion / capillary film standard or chemically resistant (etch pastes, doping pastes)			
	EOM e.g. 10µm / 15µm / 20µm / 25µm customer choice / depends on application mean value tolerance from target: -2µm/+3µm 4µm < Rz < 10µm			
line width	minimum 30 (production, lab on request) line width mean value tolerance from target: -2µm/+4µm			
fiducials	filled white (or increased contrast on demand) - at 240mm distance on main axes - any feature within image area of 162mm by 162mm			
position error	angle image/frame: <2° distance non-accuracy: 0.01% of nominal distance			
life time	<ul style="list-style-type: none"> ➤ 20.000 prints (average as qualified by Applied Materials Baccini Cell Systems for Baccini Esatto Technology™) ➤ 200.000 prints reported in customer qualification 			

*dated May 2014; based on 9 point measurement (25°C/55% humidity); not binding nor guaranteed unless explicitly requested and agreed

sunstence[®] uni is distributed under the **sunstence[®]** family by Hans Frintrup GmbH.



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