Frinrup NB special screen technology (Kunshan) Co., Ltd.
Innovative & Special

Our specialty and innovation of material & process for both silk screen and printing.

PV1新型含胶感光胶 Emulsion PV1

PV1新型含胶感光胶因其特殊的工业化制备方式，在硅片印刷中表现出异常耐用和抗划伤的特点，并能有效提升印刷效果。

PV1是sunstence®网版系列的专用产品。

DLC表面钻石涂层处理 DLC coating

DLC表面涂层处理是sunstence®网版的可选配项。经DLC表面涂层处理后的网版透墨性能大幅改善，能有效提高正电极印刷的浆料厚度。

sunstence® family screens can be equipped optionally with DLC coating, which enhances the paste release and wet print height.

sunstence® uni

PV1 emulsion demonstrated superior extended print life due to higher durability and robustness in production. This emulsion is exclusively available for sunstence® family screens only.

Maramask PV-HF Screen printable resist Maramask PV-HF

Maramask PV-HF是一种新型的用于电镀和选择性射极太阳能电池制造工艺的前道腐蚀印刷保护油墨。配合sunstence® wm和sunstence® uni网版能达到最佳印刷效果。

Maramask PV-HF is a HF-resistant screen printable resist for plating, texturing and porous silicon formation, as used for direct plating metallization for solar cells. Printing results are optimum using sunstence® wm or sunstence® uni screens.
### Solar Stencil Family

<table>
<thead>
<tr>
<th>Sunstone® Poly</th>
<th><strong>Features &amp; Options</strong></th>
<th><strong>Applications</strong></th>
<th><strong>Benefits</strong></th>
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<tbody>
<tr>
<td>Polyester mesh</td>
<td>- Extra-long-endurance-coating</td>
<td>- Backside busbar and AI printing</td>
<td>- Consistent tension level and printing result</td>
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<tr>
<td></td>
<td>- Emulsion-PV</td>
<td>- Finger fine line printing</td>
<td>- Print fidelity &gt;20000 times</td>
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<tr>
<td></td>
<td>- Poly-E whip</td>
<td>- Finger double printing</td>
<td>- Extraordinary long printing runs &gt;20000</td>
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<td>- Poly-E whip and Poly-E</td>
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<table>
<thead>
<tr>
<th>Sunstone® WM</th>
<th><strong>Features &amp; Options</strong></th>
<th><strong>Applications</strong></th>
<th><strong>Benefits</strong></th>
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</thead>
<tbody>
<tr>
<td>Wire mesh</td>
<td>- DLC “diamond-like coating”</td>
<td>- Backside busbar and AI printing</td>
<td>- Consistent printing result with remarkably increased wafer efficiency</td>
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<thead>
<tr>
<th>Sunstone® Uni</th>
<th><strong>Features &amp; Options</strong></th>
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<th><strong>Benefits</strong></th>
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</thead>
<tbody>
<tr>
<td>Poly-E mesh combined with universal foil (patents pending)</td>
<td>- Electromagnetic shielding</td>
<td>- Finger double printing</td>
<td>- Optimal performance for high-speed processes</td>
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<td></td>
<td>- Selective etching</td>
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<tr>
<th>Sunstone® ME</th>
<th><strong>Features &amp; Options</strong></th>
<th><strong>Applications</strong></th>
<th><strong>Benefits</strong></th>
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<tbody>
<tr>
<td>Bi-level metal etched foil (patents pending)</td>
<td>- Soldering layer</td>
<td>- Finger double printing</td>
<td>- Optimized for high-speed processes</td>
</tr>
</tbody>
</table>

### Additional Service

- **Image Data Processing & High Resolution Film**
- **Technical Consulting & On-site Trouble-Shooting**

### Features & Applications

- **Hurtz Frame**
  - 355 x 355 mm / M B
  - 29.22 x 25 x 3.0/1.5
  - 0.71 kg

- **Casting Frame**
  - 355 x 355 mm / M 6
  - 1.5 kg

- **Sunstone® Uni + PV1 Single Glue**
- **Sunstone® WM + PV1 Single Glue**
- **Sunstone® WM + WS1.7 Single Glue**
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Frintrup NB special screen technology (Kunshan) Co., Ltd. is a joint venture and ideally combines the expertise of Hans Frintrup GmbH as a screen manufacturing company and NB Technologies GmbH as consulting engineers. The new company works within a competence network of suppliers and partners, which ensures the customer to benefit from a portfolio of leading edge materials, technologies and services, and produces high-end screens for the Asian photovoltaic and microelectronic market, while the portfolio incorporates services for the screen printing field from an "entirety" aspect.

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