

ESL ELECTROSCIENCE

CERAMIC TAPES & THICK-FILM MATERIALS 416 EAST CHURCH ROAD KING OF PRUSSIA, PA 19406-2625, U.S.A

www.electroscience.com

9926

SOLAR CELL SILVER ALUMINIUM PASTE

Pure Silver Conductor for Back Surface Solderable Pad

ESL 9926 is designed for the metallization of single crystal and polycrystalline silicon solar cells. The 9926 is designed to be used for the back-surface of the silicon wafer. The paste requires firing in a range of 625°C-850°C with a very short cycle of about 5-8 seconds at the peak temperature.

The recommended materials to be used in conjunction with 9926 are 9980 Series frontsurface silver and 2590 Series back-surface aluminium metallisations.

PASTE DATA

Rheology:	Thixotropic screen-printable paste
Viscosity : (Brookfield RVT, 10rpm, ABZ Spindle, 25.5 ± 0.5 °C)	175 ± 25 Pa.s
Shelf Life (20 - 25 °C):	6 months
PROCESSING	
Screen Mesh, Emulsion:	325 S/S, 25 μm
Levelling Time (at 20 °C):	5 - 10 min
Drying Time (at 125 °C):	10 - 15 min
Firing Temperature Range:	625 - 850 °C Time above 600 °C: typically 5 - 8 sec
Substrate for Calibration:	96% alumina
Thinner:	ESL 401

ESL Europe (KOP) 9926 0805-A

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CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapours emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

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