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CERMET GOLD CONDUCTOR

8835-1D

ESL 8835-1D is a mixed bonded gold conductor specially formulated for aluminum nitride substrates. It exhibits good conductivity and adhesion. After proper dilution, 8835-1D can also be used for dotting applications.

PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ spindle, 10 rpm, 25.5°C±0.5°C)	225±25 Pa·s
BONDING MECHANISM:	Mixed
SHELF LIFE: (25°C)	6 months

PROCESSING

SCREEN MESH/EMULSION:	325/28 µm
LEVELING TIME: (25°C)	5-10 minutes
DRYING: (125°C)	10-15 minutes
FIRING TEMPERATURE:	850°C
TIME AT PEAK:	10-12 minutes
RATE OF ASCENT/DESCENT:	60°C-100°C/minute
SUBSTRATE FOR CALIBRATION:	AIN
THINNER:	ESL 431 or 429 for dotting purposes ESL 401 for regular thinning

TYPICAL PROPERTIES

FIRED THICKNESS:	7.5-15 µm
8835-1D 9801-F	

ESL Affiliates

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See Caution and Disclaimer on other side.

APPROXIMATE COVERAGE:	70-90 cm ² /g
RESISTIVITY:	< 4 mΩ/sq.
PRINTING RESOLUTION: (Line/Space)	125 μm /125 μm
ADHESION: (typical on AlN) [90° pull, 2.0 mm x 2.0 mm pads, ESL 3601 (80 Au/20 Sn) solder]	
Initial pull strength:	25-35 N
THERMOSONIC AU WIRE BOND: (Initial, 25 μm wire)	8-12 grams

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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 vapors 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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