



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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PLATINUM CONDUCTOR

5541-A

RoHS Compliant* Conductor Designed For Use On Alumina Substrates

ESL 5541-A is a screen-pintable platinum conductor for use on 96% alumina ceramic substrates. The paste provides a low resistivity film with excellent adhesion.

PASTE DATA

RHEOLOGY: Thixotropic, screen printable pastes

VISCOSITY: 315±100 Pa·s
(Brookfield HBT, SC4-14 spindle, 10RPM at 25.5°C±0.5°C)

SHELF LIFE: 6 months

PROCESSING:

SCREEN MESH/EMUSLION: 200-325 mesh/5 µm

PEAK FIRING TEMPERATURE: 1350 ± 10°C

TIME AT PEAK: 30 minutes

TYPICAL PROPERTIES:

RESISTIVITY: (10 µm fired thickness, fired at 1350°C) ≤ 20 mΩ/sq.

ADHESION: (1mm x 3mm pad, pull strength, fired at 1350°C) ≥ 12 N

SUBSTRATE OF CALIBRATION: 96% alumina

THINNER: ESL 401

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See Caution and Disclaimer on other side.

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*Complies with RoHS, ELV, WEEE and CHIP 3 EC directives

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.

DISCLAIMER: The product information and recommendations contained herein are based on data obtained by tests we believe to be accurate, but the accuracy and completeness is not guaranteed. No warranty is expressed or implied regarding the accuracy of these data, the results obtained from the use hereof, or that any such use will not infringe any patent. Electro-Science's assumes no liability for any injury, loss, or damage, direct or consequential arising out of its use by others. This information is furnished upon the condition that the person receiving it shall perform their own tests to determine the suitability thereof for their particular use, before using it. User assumes all risk and liability whatsoever in connection with their intended use. Electro-Science's shall be to replace such quantity of the product proved defective.
