



ESL ELECTRO-SCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

416 EAST CHURCH ROAD
KING OF PRUSSIA, PA 19406-2625 USA

T: 610.272.8000
F: 610.272.6759

www.electroscience.com

ALUMINA DIELECTRIC

4530

High-Temperature RoHS Compliant* Dielectric for Oxygen Sensors

ESL 4530 is a high-temperature insulator composition for use in oxygen sensors and other HTCC applications. It is a screen-printable thick-film paste. It is compatible with other ESL pastes used in similar applications.

PASTE DATA

RHEOLOGY: Thixotropic, screen printable paste
VISCOSITY: 70±25 Pa-s
(Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)

PROCESSING

SCREEN PARAMETERS 200-325 mesh/ 5µm emulsion
LEVELING TIME: (25°C) 5-10 minutes
DRYING AT 80°C: 10-15 minutes
PEAK FIRING TEMPERATURE & TIME: 1450°C-1500°C/1.5 hours
SHELF LIFE: (at 25°C) 6 months
THINNER: ESL 480

4530 1301-New

ESL Affiliates

ESL China • Rm #1707, Tower A • City Center of Shanghai • 100 Zunyi Road • Shanghai, China 200051 • Tel: +86-21-6237-0336 • Fax: +86-21-6237-0338 • eslchina@eslshanghai.net

ESL Europe • 8 Commercial Road • Reading, Berkshire, England RG2 0QZ • Tel: +44-118-918-2400 • Fax: +44-118-986-7331 • sales@esleurope.co.uk

ESL in Korea • AMT • South Korea • Tel: +82-31-466-0651 • Fax: +82-31-466-0658 • yumikim@esl-amt.co.kr

ESL-Nippon • Sukegawa Bldg 6th floor • 1-3-4 Yanagibashi • Taito-ku • Tokyo, Japan 111-0052 • Tel: +81-3-3864-8521 • Fax: +81-3-3864-9270 • sales@esl-nippon.co.jp

ESL Taiwan • 14F, No. 168, Dunhua N. Road • Sungshan District • Taipei 105, Taiwan • Tel: +886-975-553-612 • dshih@esl-taipei.com

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 thereof 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 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 make 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 only obligation shall be to replace such quantity of the product proved defective.
