



ESL ELECTROSCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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CERMET PALLADIUM CONDUCTOR

6642

RoHS Compliant* Conductor for Oxygen Sensors

ESL 6642 is a fritless palladium conductor available in screen-printable or pourable versions. The material is designed for use on partially stabilized zirconia for oxygen sensors.

PASTE DATA

Rheology:	Thixotropic, screen-printable paste
Viscosity:	
Printing Grade (Brookfield RVT ABZ spindle, 10 rpm, 25.5°C ± 0.5°C)	200 - 300 Pa.s
Pouring Grade (Brookfield RVT #3 spindle, 10 rpm, 25.5°C ± 0.5°C)	5 - 6 Pa.s
Bonding Mechanism:	MICRO-LOK®
Shelf Life (20 - 25 °C):	6 months

PROCESSING

Screen Mesh, Emulsion: (Printing grade)	325 S/S, 25 µm
Drying Time (at 70 - 125°C):	10 - 15 min
Firing Temperature Range:	1250 - 1450°C
	Time at peak: 15 min
Substrate for Calibration:	96% alumina
Thinner:	ESL 401

ESL Europe (KOP) 6642 0912-A

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See Caution and Disclaimer on page 2.

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***None of the six substances referred to in the RoHS Directive (2002/95/EC) are used in the formulation of this product.**

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.

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. ElectroScience 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 his own tests to determine the suitability thereof for his particular use, before using it. User assumes all risk and liability whatsoever in connection with his intended use. ElectroScience's only obligation shall be to replace such quantity of the product proved defective.
