ESL ELECTRO-SCIENCE
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 or pouring consistency
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:	6 months

PROCESSING

SCREEN MESH/EMULSION: (Printing Grade)	325/25 μm
DRYING:	10-15 minutes, 70°C-125°C
FIRING RANGE:	1250°C-1450°C
TIME AT PEAK:	15 minutes
SUBSTRATE OF CALIBRATION:	96% alumina
THINNER	ESL 401

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