



ESL ELECTRO-SCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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ALUMINA TAPE

44000

HIGH TEMPERATURE CO-FIRED CERAMIC

The ESL 44000 is a flexible cast film of 96% alumina powder dispersed in an organic matrix. This material is designed to be fired at 1500°C to yield a dense white-colored alumina ceramic. The 44000 is provided on a polyester film to protect the tape from mechanical damage and aid in handling.

PROCESSING PARAMETERS

LAMINATING:	21 MPa at 70°C
FIRING TEMPERATURE:	1500°C
TIME PEAK:	2 hours

TAPE CHARACTERISTICS

TAPE THICKNESS:	200µm ± 10%
SHRINKAGE:	X,Y: 16.0-18.0 %
FIRED DENSITY:	≥ 3.6 g/cc

44000 0511-new

ESL Affiliates

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See Caution and Disclaimer on other side.

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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.

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.
