



ESL ELECTRO-SCIENCE

CERAMIC TAPES &
THICK-FILM MATERIALS

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POROUS ALUMINA COVER PLATE

42520-X

ESL 42520 is a porous, fired alumina ceramic plate used to cover green ceramic parts during firing. The weight of the porous plate enhances the flatness of fired parts while retaining gas permeability during organic removal, thus allowing single firing. The plate may also be used as a setter to promote more uniform burnout of binders during firing. Uses include Fuel Cell applications such as SOFC electrolyte substrates, and other processing of ceramic tape.

ESL cover plates are available in several standard sizes as shown below, and in customer-specific configurations.

DATA:

THICKNESS:	1 mm nominal or as required
THICKNESS TOLERANCE	mean \pm 10%
POROSITY:	40% nominal
CAMBER (parallel plate gauge)	0.5 mm/100 mm
MAXIMUM USE TEMPERATURE	up to 1550°C
RECOMMENDED USE TEMPERATURE	up to 1450°C
RE-FLATTENING TEMPERATURE	1550°C

SIZES AVAILABLE (mm)

42520-2	50 x 50
42520-3	75 x 75
42520-4	100 x 100
42520-5	125 x 125
42520-6	150 x 150



42520-X 0507-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.
