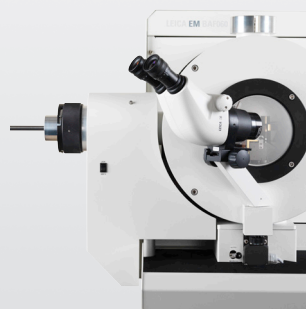
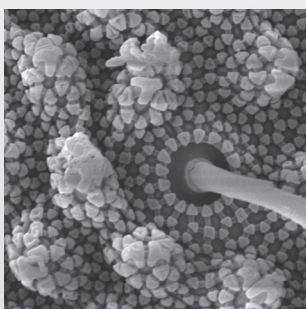


Living up to Life

Leica
MICROSYSTEMS

Material
Research



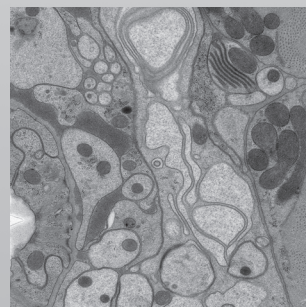
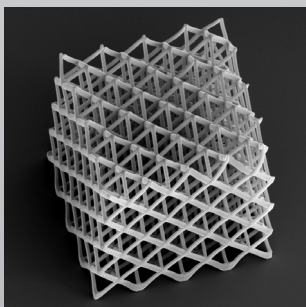
Life Science
Research

Application Note

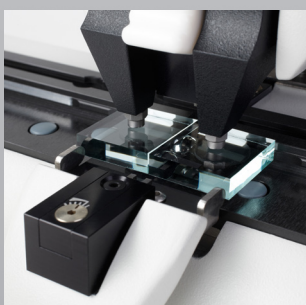
Silver heater in a heated window

related instrument Leica EM TIC020, Leica EM TIC3X

Medical
Research



Industrial
Manufacturing



Natural
Resources



Silver heater in a heated window

Market: Car industry

GOAL

Cross section of a glass / silver wire interface

Process description (benchmark values for this particular sample):

Mechanical pre-preparation:

Grinding with the EM TXP to get a flat cross-sectional surface

Parameter	
Acceleration voltage	7 kV
Gun current	2.6mA
Milling time	3
Complete process time	3 h 10 min

RESULTS

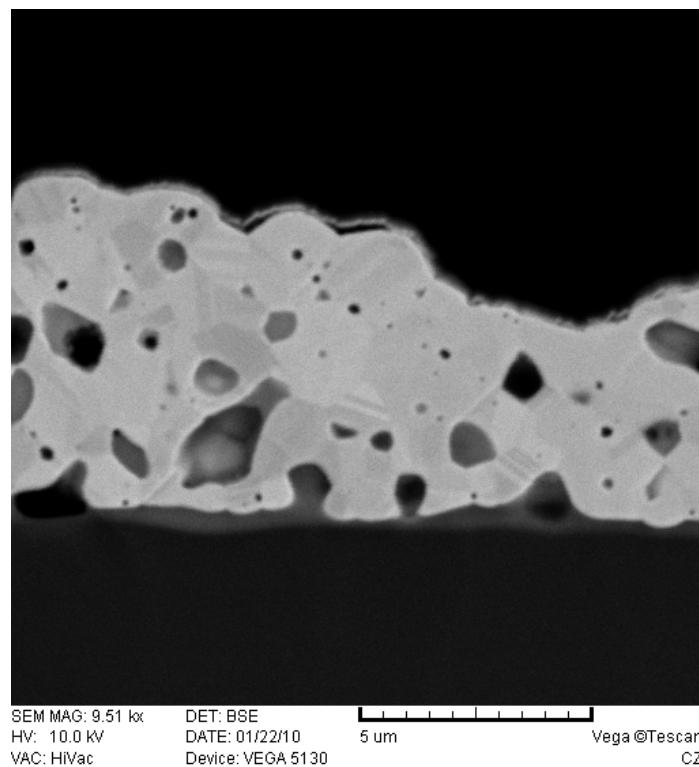
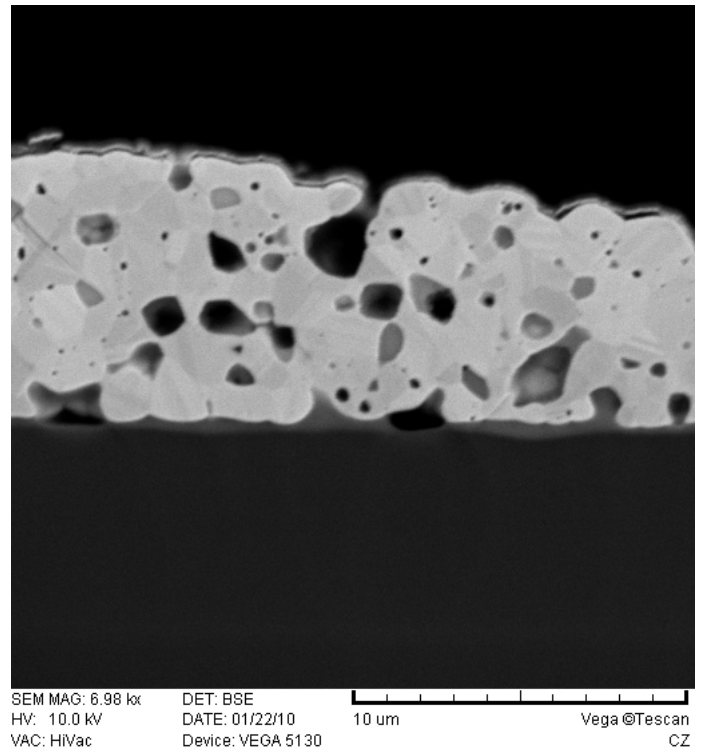
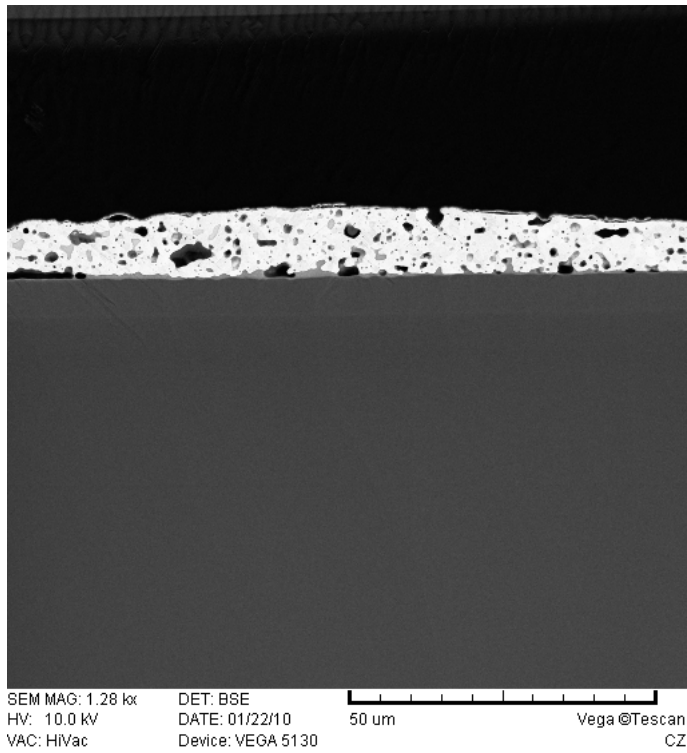
Perfect cross section of the glass / silver wire interface

The structure of silver and the interface area with an intermediate layer are clearly visible.

The silver wire shows a lot of pores and inclusions.

Wolfgang Grünewald, Leica Microsystems

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Cross section of a glass / silver heater interface of a heated window

RELATED PRODUCTS



Leica EM TIC020



Leica EM TIC3X

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