

# Coating process of honeycomb cordierite support with Ni/boehmite gels

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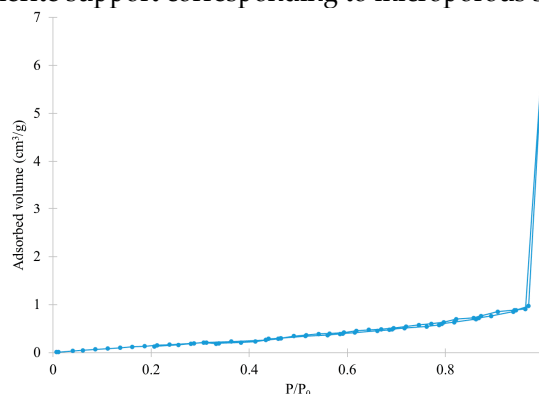
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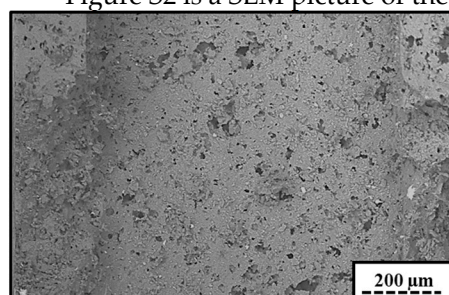
## 1. Characterizations of the bare honeycomb support

Figure S1 represents the nitrogen adsorption-desorption isotherms of the honeycomb cordierite support corresponding to microporous solid.



**Figure S1.** Cordierite monolith nitrogen adsorption-desorption isotherms.

Figure S2 is a SEM picture of the support.



**Figure S2.** Cordierite channel surface (front view) obtained with SEM-BSE at 100 X magnification.

Figure S3 depicts the mercury porosimetry curve and the corresponding pore size distribution of the cordierite support.

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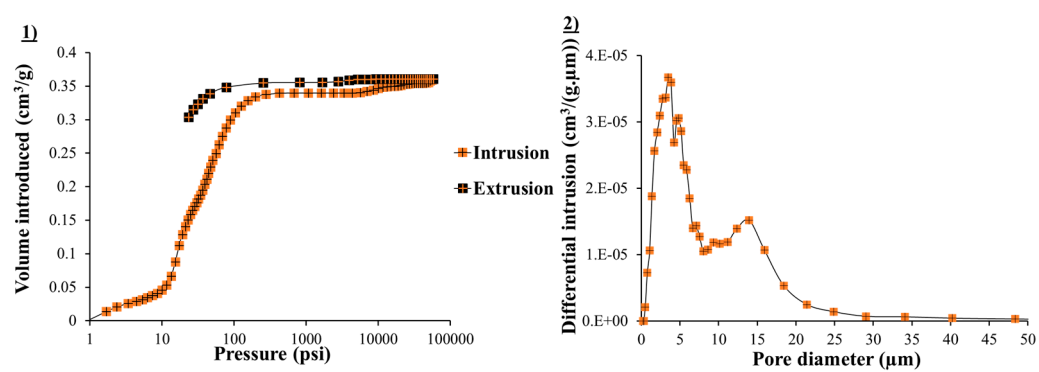
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**Figure S3.** Mercury porosimetry curve for the cordierite sample; 1) mercury volume introduced as a function of the pressure, 2) macropore size distribution.