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Comparison of porosity in coke like materials determined using traditional techniques and neutron tomography

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Metallurgical coke is an important raw material used in the ironmaking blast furnace as a reducing agent and structural component of the furnace burden. One of the factors effecting coke performance is porosity. Traditional methods of determining coke porosity involve metallurgical techniques that assess two dimensional cross-sections of a given coke. In this work we discuss the limitations in this approach in terms of the inter-connectivity of the porosity present in metallurgical coke and a laboratory designed coke analogue as assessed via traditional techniques and neutron tomography.

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