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Flow resistance, transport phenomena for metallic foam: experiments

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Abstract: Flow resistance and transport properties for air flow through metallic NiCr foam were experimentally studied. The foam was considered as a catalyst carrier in structured reactors. Heat transfer coefficients were determined by foam heating by electric current flowing directly through it. Mass transfer coefficiants were determined based on the Chilton-Colburn analogy. The results were compared with packed bed and mono-lithic reactor.

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