

Institute of Chemical Engineering

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Flow resistance of streamlined structures

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Abstract: The paper presents flow resistance of a new type of catalytic carriers - streamlined structures. They are short-channel structures (short monoliths) of various channel cross-sectional shape. The innovation of the design is channel wall similar to the airfoil profile. The influence of the structure length and the channel cross-sectional shape on flow resistance is presented. The results are also compared with the values for monolith and packed bed.

Attachments:

[Zeszyt 27 \(2023\)](#) pdf, 3.31 MB

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