

Accepted Manuscript

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PII: S1359-4311(17)31912-9
DOI: <https://doi.org/10.1016/j.applthermaleng.2017.12.054>
Reference: ATE 11575

To appear in: *Applied Thermal Engineering*

Received Date: 22 March 2017
Revised Date: 28 July 2017
Accepted Date: 12 December 2017

Please cite this article as: Y.S. Chen, J. Tian, Y. Fu, Z.F. Tang, H.H. Zhu, N.X. Wang, Experimental study of heat transfer enhancement for molten salt with transversely grooved tube heat exchanger in laminar-transition-turbulent regimes, *Applied Thermal Engineering* (2017), doi: <https://doi.org/10.1016/j.applthermaleng.2017.12.054>

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**Experimental study of heat transfer enhancement for
molten salt with transversely grooved tube heat exchanger
in laminar-transition-turbulent regimes**

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HIGHLIGHTS

- Heat transfer of molten salt in transversely grooved tube is experimentally studied.
- Effects of Re and Pr on heat transfer enhancement characteristics are studied.
- Transversely grooved tube significantly enhances heat transfer performance.
- Transversely grooved tube expedites transition from laminar flow to turbulent flow.
- Heat transfer correlations of molten salt in transversely grooved tube are proposed.

Abstract

In an effort to develop a heat transfer enhancement technique for molten salt in heat exchanger, experiments are carried out to evaluate the heat transfer performance

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