

Performance Comparison of Upgraded Melt Tapered Type and Performance Comparison

Inserts of twisted tapes in tubes with a large number of variations have long been used to enhance heat transfer rate and improve heat exchanger performance. Although, this improved the ...

Among the tested designs, tree-shaped fins exhibited the best performance, achieving complete melting within 130 min and 67% reduction in melting time compared to the unfinned enclosure.

The novelty of this work lies in introducing a spinneret geometry specifically optimized to minimize melt residence time, an outcome directly linked to reduced material degradation and waste.

The measured melt temperature and pressure account for the enhanced microstructural formation and improved melt fluidity observed in UP relative to UPP, and for the superior ...

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The present study numerically compares the heat transfer performance of tapered type shell and tube cascaded latent heat storage (CLHS) model with that of the conventional cylindrical ...

This study investigates the effects of single profile multi v-cut twisted tape inserts on the heat transfer rate (Nu), friction factor (f), and performance evaluation criteria (PEC) in a double-pipe ...

ABSTRACT A comparative experimental study to examine the hydrothermal behaviors of the double tube heat exchanger with various modified twisted tape and wire coil inserts is performed using ...

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