

Convection | Two-phase flow heat transfer

- Two-phase forced flow heat transfer
 - Modeling must take into account the boiling heat transfer depending on the surface heat transfer, and the forced convection depending on the vapor quality ($x=\dot{m}_v/\dot{m}_l$) and the mass flow rate (\dot{m}_l)
 - Boiling tends to be dominant for low quality and high heat flux
 - Forced convection tends to be dominant for large vapor quality and mass flow rate
 - Several general correlations and specific to cryogenic fluid exit
 - Better to try more than one to evaluate the heat transfer rate
 - Superposition method (Chen)
$$h_{TP} = h_{nb} + h_f$$
 - Intensification model (Shah)
$$h_{TP} = E \cdot h_f$$
 - Asymptotic model (Liu et Winterton $n=2$)
$$h_{TP} = \left[(F_{nb} h_{nb})^n + (F_f h_f)^n \right]^{1/n}$$
- The Steiner-Taborek ($n=3$) correlation is considered as the most accurate including the cryogenic fluids (helium, hydrogen, nitrogen, oxygen, ...)



CHEN J.C. Correlation of boiling heat transfer to saturated fluids in convective boiling. Ind. Eng. Chem. Proc. Des. Dev., 5, 3 (1966), 322-309.

SHAH M.M. – A new correlation for heat transfer during boiling flow through pipes. ASHRAE Trans, 82, 2 (1976), 66-86.

Steiner H, Taborek J. Flow boiling heat transfer in vertical tubes correlated with an asymptotic model. Heat Transfer Engineering, 1992;13(2):43-69.

Two Phase Flow Heat Transfer In The Po

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