

Evaluation of Refrigeration Performance of Ternary Mixtures for Developing R-502 Alternatives

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Much effort has been made to find suitable replacements for low temperature refrigerants such as R-502 due to its high Ozone Depletion Potentials. In this work, some ternary mixtures that were primarily selected as R-502 alternative candidates are introduced. The refrigeration performance testing for R-502 and these mixtures at various conditions was carried out by using a refrigerant compressor calorimeter. The results of comparison of performance indicated that these mixtures could be suggested as R-502 alternatives.