

TECHNICAL BULLETIN

Improper Service Practice – Mixing Refrigerants, A Formula for Failure

July 11, 2018 - Since the onset of the R-22 phase out, several alternative and blended retrofit refrigerants have been introduced into the market. It is critical to understand that there are no alternative refrigerants on the market to date that should be used to “top off” or mix with R-22, despite inaccurate advice circulating that states otherwise. It is essential that manufacturers communicate proper use and installation methods to technicians and distributors.

The most important step in the conversion process that applies to all alternative refrigerants, is the recovery of R-22 from the unit prior to conversion. Alternative refrigerants are designed to replicate the operational characteristics of R-22, but when mixed with R-22, they create a new blend composition with no respective pressure temperature or superheat sub-cooling chart. Without the respective performance charts, it is impossible to optimize the system charge, which can potentially lead to compressor flood back, overheating, dramatically reduced system efficiency, and can shorten the life of compressors.

Mixing refrigerants potentially causes catastrophic effects on equipment, and contaminates R-22 for whoever may recover it in the future. It is an irresponsible practice and must be discouraged industry wide.

For more information regarding proper refrigerant use, visit www.freon.com/MO99 or www.nu-22b.com.

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About The Chemours Company

The Chemours Company (NYSE: CC) helps create a colorful, capable and cleaner world through the power of chemistry. Chemours is a global leader in titanium technologies, fluoroproducts and chemical solutions, providing its customers with solutions in a wide range of industries with market-defining products, application expertise and chemistry-based innovations. Chemours ingredients are found in plastics and coatings, refrigeration and air conditioning, mining and general industrial manufacturing. Our flagship products include prominent brands such as Teflon™, Ti-Pure™, Krytox™, Viton™, Opteon™, Freon™ and Nafion™. Chemours has approximately 7,000 employees and 26 manufacturing sites serving approximately 4,000 customers in North America, Latin America, Asia-Pacific and Europe.

Chemours is headquartered in Wilmington, Delaware and is listed on the NYSE under the symbol CC. For more information please visit chemours.com, or follow us on Twitter [@Chemours](https://twitter.com/Chemours), or [LinkedIn](https://www.linkedin.com/company/chemours).

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