



# Opteon™ YF

## Refrigerant (R-1234yf)

### Focus on Quality

## Product Information

### Product Quality

Using best practices leads to the best quality product. Why do anything less than your best when packaging a premium product? This bulletin is a short summary of the information that can be found in more detail in the Opteon™ YF Properties, Uses, Storage, and Handling (PUSH) Bulletin and the Safety Data Sheet (SDS).

### Best Practices—Handling

- Ensure that the storage tank and transfer lines are clean before working with Opteon™ YF refrigerant. If the cylinders are not clean or suspected of being contaminated, clean the suspected contaminated tank and lines with mild detergent or warm water.
- Ensure that the storage tank and lines are dry before transferring refrigerant into them. Purge the tank and lines with dry nitrogen (99.99% purity), which has a maximum moisture specification of 10 ppm.
- Ensure that the storage tank and lines are evacuated to a minimum of 5,000 microns (0.01 barA) or less prior to filling with refrigerant.

### Best Practices—Packaging

- Do not repackage Opteon™ YF into cylinders that have a leaking valve or where the valve has been left open.
- Do not fill refrigerant into Opteon™ YF cylinders with excessive amounts of air or moisture. This can lead to poor product quality and impact release specifications.

- Ensure that the cylinders used for packaging Opteon™ YF are clean and properly prepared for packaging refrigerant.
- Ensure that the refrigerant charging line has been thoroughly prepared and does not introduce contaminants into cylinders.
- Once cylinders are properly filled, ensure that valves are tightly closed and quality or shrink seals have been applied.

### Best Practices—Storage

- Always follow the SDS that can be found at [www.Opteon.com](http://www.Opteon.com).
- Cylinders should be stored upright and firmly secured to prevent falling or being knocked over.
- Separate full containers from empty containers.
- Do not store near combustible materials.
- Avoid areas where salt or other corrosive materials are present.
- Keep in properly labeled containers.
- Keep in cool, well-ventilated place away from direct sunlight.
- Small cylinders should be stored at temperatures no greater than 52 °C (125 °F).
- Store small cylinders according to national requirements.



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## Quality Best Practices

There have been some instances where system contamination has led to the appearance of a white material that can appear as a whitish residue or string. To avoid, do not overlook the small points in refrigerant transfer, storage, and handling installations. Common points that can have a major impact on refrigerant quality are storage tanks, transfer lines, and package cleanliness.

Do not let chemicals, such as thread locking agents or sealants, get into the system and possibly lead to contamination and incompatibility. There are at least several hundred different thread locking agents; and, while one from a particular family may be compatible with Opteon™ YF, this does not ensure that all products are compatible. These may have a negative interaction with Opteon™ YF, generating a white material.

Do not use strong cleaning agents to clean storage tanks, transfer lines, filling equipment, and/or cylinders. While Opteon™ YF has good material compatibility and stability, it is not compatible with strong oxidizers—such as those found in peroxide-type cleaning agents. Cleaning agents that bill themselves as natural or friendly may also contain strong oxidizing agents and must be avoided.

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**For more information on the Opteon™ family of refrigerants, or other refrigerants products, visit [opteon.com](https://opteon.com) or call (800) 235-7882.**

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